

Brownfields  
Redevelopment

Environmental  
Site Assessments

Risk  
Characterizations

Guaranteed  
Remediation

Compliance  
Auditing

Permitting

Construction  
Management

LSP Services

Geotechnical  
Engineering

vIA

## **CLASS A-3 RESPONSE ACTION OUTCOME (RAO) STATEMENT**

**Former National Lead Company  
BRA Parcel 200  
Crosstown Center Development**

**RTN 3-0245**

**March 2008**

**RECEIVED**

MAR 8 7 2008

DEP  
NORTHEAST REGIONAL OFFICE

*Prepared for:*  
**C J Crosstown LLC**  
150 Mount Vernon Street, Suite 500  
Boston, Massachusetts



**Gannett Fleming**



A Tradition of Excellence  
[www.gannettfleming.com](http://www.gannettfleming.com)

199 Wells Avenue • Suite 210 • Newton • Massachusetts • 02459

# DEP BWSC RAO LEVEL 1 AUDIT CHECKLIST

Disclaimer: This checklist is for use by DEP in reviewing Response Action Outcome (RAO) Statements, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of RAO requirements, which are fully set forth in MGL c. 21E and 310 CMR 40.0000. Completion of this checklist by DEP does not constitute a final agency decision, and does not create any legal rights or relieve any party of obligations that exist pursuant to applicable laws.

RTN	3-0000245	Town	Roxbury	Street Address	800 Albany Ave.
Date RAO Rcvd	3/7/2008	Date Screened	9/24/2008		

## I. SITE CONCERN

### A. Air

1. Applicable GW-2 standard exceeded @ residence/school with no soil gas/indoor air sampling
2. Site contaminants impacting indoor air

### B. Drinking Water/Groundwater

1. More than 0.5" NAPL observed in any monitoring well
2. Site within potential drinking water source area (PDWSA)
3. Site located within IWPA/mapped Zone II
4. Private/Non-municipal public well(s) (i.e. TNC, NTNC) located within 500 feet of site
5. Municipal well(s) located within 1000 feet of site
6. Private well contaminated as a result of site, still in use (no filter, no public water, etc.)
7. Public water supply contaminated as a result of site, no filters or other mitigation.

### C. Contaminated Soil At a School or Residence

1. EPC in S-1 soil exceeds Method 1 Standard
2. Bioaccumulating compounds (i.e. Hg, Pb, PCBs, etc.) detected less than 1 foot dee
3. IH compounds (arsenic, cadmium, chrome VI, cyanide) detected less than 1 foot dee

### D. Environmental Concerns

1. Site within 500 feet of surface water and/or wetlands
2. Endangered species habitat, ACEC and/or certified vernal pool within 500 fee
3. Confirmed contamination of surface water, sediments and/or wetlands with site contaminant

### E. Site Area Use - Check All That Apply

1. Industrial use or public Right of Way (no children likely to be present)
2. Commercial (limited presence of children)  yes
3. School/Institution (pre-K through high school, not college/university)  ?
4. Residential

<b>F. Released OHM (Primary Contaminant Type[s])</b>	RTN	3-0000245
1. Petroleum fuel oils (e.g. #2, #4, #6, JP-4, JP-8, kerosene, lube oil, MODF, etc.)	[yes]	
2. Gasoline, waste oils, Aviation Fuel (AVGAS, Jet A, etc.)	[yes]	
3. Metals, coal tar, PCBs, pesticides/herbicides, asbestos, cyanide	[yes]	
4. Chlorinated solvents, perchlorate, or other organic compounds	[?]	
<b>G. Site Complexity</b>		
1. Co-mingled plumes (i.e., from different sources, one or more releases co-mingled)		
2. Bedrock contamination		
<b>II. TECHNICAL ADEQUACY</b>		
<b>A. Remedial Response Actions:</b>		
1. Documentation (BOL, HWM, etc.) of removal/treatment of contaminated soil was provided		
2. Remediation waste properly managed (Air [95%], GW [permit], SW [NPDES])		
<b>B. Source/Extent Investigations:</b>		
1. History of OHM use/storage/disposal at the site included	[?]	
2. Potential source(s) identified, characterized, or abated (septic leach field, floor drain, AST, etc)	[?]	
3. All migration pathways evaluated (soil, groundwater, surface water, air, sediment, food)		
4. Extent of contamination defined in all media (including downgradient)		
5. Potential or actual OHM analyzed for and/or evaluated (metals, VPH, VOCs, etc.)	[?]	
6. Proper sample collection technique/preservation//holding times/surrogate recovery, etc.		
<b>C. Risk Characterization:</b>		
1. Correct risk characterization method used (relative to indoor air, surface water, sediment, etc)		
2. Background identified or characterized	[no]	
3. All receptors accounted for (human, environmental) or AUL applied		
4. Site activities and uses identified (current, future, any limitations that were assumed)		
5. Exposure points identified (GW, soil for all RC Methods, other media for Methods 2-3)		
6. All exposure pathways identified and evaluated (inhalation, ingestion, dermal, etc.)		
7. Hot Spot(s) addressed, identified (as Hot Spot) and not added in to other EPCs		
8. EPC calculation(s)/equations provided (including spatial and/or temporal, Hot Spots, etc.)		
9. EPC properly calculated (maximum concentration, 75%/10x, upper confidence limit)		
10. Soil/groundwater categories properly identified		
11. Applicable soil and/or GW standards not exceeded (Method 1 or 2) or AUL applied		
12. Characterization of Risk to Safety is included (all methods)		
13. Method 3 Public Welfare Risk Characterization is included		
14. Method 3 Environmental Risk Characterization – Stage 1 or 2 was completed, if applicable		
15. Method 3 Human Health: Non-Cancer Risks < HI of 1, ELCR < than 1x10-5		



GANNETT FLEMING, INC.  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
Office: (617) 527-7822  
Fax: (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 28, 2008

Ms. Karen Stromberg  
Massachusetts Department of Environmental Protection  
Northeast Regional Office  
205B Lowell Street  
Wilmington, MA 01887

UIA

Re: Activity and Use Limitation  
Former National Lead Site  
800 Albany Street A  
Boston (Roxbury), MA  
MassDEP RTN 3-0245  
ACO-NE-05-3R001

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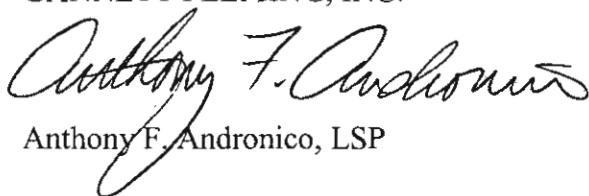
DEP  
NORTHEAST REGIONAL OFFICE

Dear Ms. Stromberg:

Gannett Fleming, Inc. on behalf of CJ Crosstown, LLC is pleased to submit this registered copy of an Activity and Use Limitation (AUL) for the above-referenced site, which was filed at the Suffolk County Registry of Deeds on February 14, 2008. Also enclosed are AUL Transmittal Form BSWC 113, copies of the cover letters to public officials included with copies of the recorded AUL and the tear sheet of the legal notice of the AUL as published in the local newspaper.

If you have any questions or comments, please do not hesitate to contact me at (617) 328-9229.

Very truly yours,  
GANNETT FLEMING, INC.

  
Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP

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FEB 29 2008

DEP  
NORTHEAST REGIONAL OFFICE





**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

BWSC113 *J. J.*

Release Tracking Number

3 - 245

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name: **NATIONAL LEAD CO FMR**

2. Street Address: **800 ALBANY AVE**

3. City/Town: **ROXBURY**

4. ZIP Code: **02119-0000**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

a. Tier 1A     b. Tier 1B     c. Tier 1C     d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: \_\_\_\_\_

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**B. THIS FORM IS BEING USED TO:** (check one)

**FEB 29 2008**

1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.
3. Submit a certified copy of an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081
4. Submit a certified copy of a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).
5. Submit a certified copy of a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
6. Submit a certified copy of a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
7. Submit a certified copy of an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
8. Submit a certified copy of a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
9. Submit a certified copy of a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
10. Submit a certified copy of a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

**D.E.P.  
NORTHEAST REGIONAL OFFICE**

11. Provide Additional RTNs:

a. Check here if this AUL Submittal covers additional Release Tracking Numbers (RTNs).

b. Provide the additional Release Tracking Number(s) **3 - 25594**

**-**

**NORTHEAST REGIONAL OFFICE  
D.E.P.  
FEB 29 2008**

**(All sections of this transmittal form must be filled out unless otherwise noted above.  
BWSC113A is required for all submittals listed above)**

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**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

**3 - 245**

**C. AUL INFORMATION:**

1. Document (per Section B) Recording and/or Registration Information:

- a. Name of Registry of Deeds and/or Land Registration Office: \_\_\_\_\_
- b. Book and Page Number and/or Document Number: \_\_\_\_\_
- c. Date of recording and/or registration: \_\_\_\_\_  
mm/dd/yyyy

2. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No     b. Yes    If yes, then fill out address section below.

3. Street Address: \_\_\_\_\_

4. City/Town: \_\_\_\_\_ 5. ZIP Code: \_\_\_\_\_

**D. PERSON SUBMITTING AUL TRANSMITTAL FORM:**

1. Check all that apply:     a. change in contact name     b. change of address     c. change in the person undertaking response actions

2. Name of Organization: **CJ CROSSTOWN ASSOCIATES LLC**

3. Contact First Name: **PETER** 4. Last Name: **CAMERON**

5. Street: **150 MOUNT VERNON STREET** 6. Title: \_\_\_\_\_

7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **02125-0000**

10. Telephone: **6178227357** 11. Ext.: \_\_\_\_\_ 12. FAX: \_\_\_\_\_

13. Is the person described in this section the owner of the property?

- a. Yes     b. No , if checked then Section G must be filled out by at least one owner.  
 c. Check here if providing names and addresses of any additional owners in an attachment.

**E. RELATIONSHIP TO DISPOSAL SITE OF PERSON SUBMITTING AUL TRANSMITTAL FORM: (check one)**

1. RP or PRP     a. Owner     b. Operator     c. Generator     d. Transporter  
 e. Other RP or PRP    Specify: **OTHER PRPS**
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Submitting AUL    Specify: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

3 - 245

**F. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here to certify that notice of the proposed Activity and Use Limitation (AUL) was given to all record-interest holders, if any, in accordance with 310 CMR 40.1074(1)(e), via certified mail.
- a. Check here if there were no record interest holders.      b. Date of certified mailing: 07/20/2007  
mm/dd/yyyy
- c. Check here to certify that names and addresses of all record holders notified is attached.
2. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a copy of the AUL was/will be provided to the Chief Municipal Officer, the Board of Health, the Zoning Official, and the Building Code Enforcement Official in the community(ies) where the the property subject to such Activity and Use Limitation is located.
3. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a Legal Notice was/will be published in a newspaper with circulation in the community(ies) where the property subject to the AUL is located.
4. Check here to certify that within 7 days of publishing a Legal Notice in a newspaper with circulation in the community(ies) where the property subject to the AUL is located, a copy of the notice was/will be submitted to DEP.
5. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a certified copy of the AUL, including the LSP Opinion containing the material facts, data, and other information, will be submitted to DEP.
6. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
7. If an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

**G. CERTIFICATION OF OWNER OF PROPERTY, IF NOT PERSON SUBMITTING AUL TRANSMITTAL FORM:**

1. I, John F. Palmieri, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL.

Signature

3. Date: 01/23/2008  
mm/dd/yyyy

4. Name of Organization: Boston Redevelopment Authority

5. Contact First Name: John F. 6. Last Name: Palmieri

7. Street: One City Hall Square 8. Title: Director

9. City/Town: Boston 10. State: MA 11. ZIP Code: 02201-1007

12. Telephone: 617-722-4300 13. Ext: 4201 14. FAX: 617-248-1937



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC113**

Release Tracking Number

**3 - 245**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

**H. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

1. I, **PETER CAMERON**

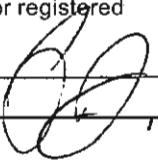
, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Pursuant to 310 CMR 40.1074 (1)(f), I also hereby certify under penalties of perjury, that either I (if person submitting the AUL Transmittal Form is the property owner), or

**BOSTON REDEVELOPMENT AUTHORITY, JOHN F. PALMIERI - DIRECTOR**

2. Name of Property Owner

am/is identified on the Notice of AUL as the owner of the property subject to the AUL, owned such property on the date that the AUL was recorded and /or registered

3. By: 

Signature

4. Title: **Project Director**

5. For: **CJ CROSSTOWN ASSOCIATES LLC**

(Name of person or entity recorded in Section D)

6. Date: \_\_\_\_\_

mm/dd/yyyy

7. Check here if the address of the person providing certification is different from address recorded in Section D.

8. Street: \_\_\_\_\_

9. City/Town: \_\_\_\_\_ 10. State: \_\_\_\_\_ 11. ZIP Code: \_\_\_\_\_

12. Telephone: \_\_\_\_\_ 13. Ext.: \_\_\_\_\_ 14. FAX: \_\_\_\_\_

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY):

**RECEIVED**

FEB 29 2008

DEP  
NORTHEAST REGIONAL OFFICE

**CURRENT HOLDERS OF RECORD INTEREST**

**PARCEL 200-A1 – Hotel – PHASE I**

DEVELOPER: GROUND LESSEE – HOTEL PARCEL; AND MANAGER OF CROSSTOWN CENTER COMMON AREA LLC:	Crosstown Center Hotel LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC AND MEMBER OF CROSSTOWN CENTER OFFICE LLC:	CJ Crosstown LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CJ CROSSTOWN LLC:	Joseph E. Corcoran Family Trust c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 021250 ATTN: Mr. Robert Flack
	The Glenwood Millennium Trust c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 02125, ATTN: Mr. Robert Flack
MANAGER OF CJ CROSSTOWN LLC	Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	Crosstown Developers (Hotel), LLC c/o The Primary Group 60 State Street, Suite 1500 Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN	The Primary Corporation

DEVELOPERS(HOTEL) LLC	Kirk A. Sykes 60 State Street, Suite 1500 Boston, MA 02109-1803
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	Thomas F. Welsh & Associates, Inc. Thomas F. Welch 101 Federal Street Suite 1900 Boston, MA 02110
MANAGER OF CROSSTOWN DEVELOPERS (HOTEL) LLC	Development by Design Eugene Sisco 115 Peases Point Way Edgartown, MA 02539
MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CROSSTOWN CENTER OFFICE LLC	Crosstown Developers (Office) LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
FEE OWNER, GROUND LESSOR AND SUBORDINATE LENDER:	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
BOND UNDERWRITER:	RBC Dain Rauscher Inc. One Beacon Street Boston, MA 02108 ATTN: Tobias Yarmolinsky, Sr. VP
BOND TRUSTEE:	Wachovia Bank, N.A. 200 Berkeley Street, 17 m Floor Boston, MA 02116 ATTN: Timothy Donmoyer  With a copy to:

	Ruth E. Fitch, Esq. Palmer & Dodge 111 Huntington Avenue Boston, MA 02199
BOND ISSUER	City of Boston, acting by and through its Industrial Development Financing Authority 2201 Washington Street Boston, MA 02119 ATTN: Executive Director
SUBORDINATE LENDER:	Boston Connects, Inc. 2201 Washington Street Roxbury, MA 02119 ATTN: President, Empowerment Zone Board
PARKING TENANT	Medical Academic and Scientific Community Organization, Inc. 375 Longwood Avenue Boston, MA 02215 ATTN: General Counsel  With a copy to  Robert Tuchman Wilmer Cutler Pickering Hale and Dorr 60 State Street Boston, MA 02109
VERIZON EASEMENT:	Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager
KEYSPAN EASEMENT:	KeySpan Energy Delivery New England 201 Rivermore Street West Roxbury, MA 02132 Att: Frank Duggan, Key Account Executive  Keyspan Energy Delivery New England One Beacon Street Boston, MA 02108 Att: Thomas O'Neill, Esq., Senior Counsel
BECO/NSTAR EASEMENT	Boston Edison Company Nstar 1165 Massachusetts Avenue Dorchester, MA 02125 Att: Rights and Permits Department
NOTICE OF PARKING LEASE	Beth Israel Deaconess Medical Center 300 Brookline Avenue

	<p>Boston, MA 02213 ATTN: Paul Levy, CEO</p> <p>With a copy to:</p> <p>Mark Waxman Foley &amp; Lardner LLP 111 Huntington Ave. Boston, MA 02199</p>
NOTICE OF PARKING LEASE AND TENANT OF PARCEL 200-C1	<p>The Brigham and Women's Hospital, Inc. 75 Francis Street, Boston, MA 02115 ATTN: Director of Real Estate Department</p> <p>With a copy to:</p> <p>Office of General Counsel Partners Healthcare System, Inc. 50 Staniford Street 10<sup>th</sup> Floor Boston, MA 02114</p>
NOTICE OF PARKING LEASE	<p>Dana Farber Cancer Institute, Inc. 44 Binney Street Boston, MA 02115 ATTN: Chief Operating Officer</p> <p>With a copy to: Dana Farber Cancer Institute, Inc. 44 Binney Street Boston, MA 02115 ATTN: General Counsel</p>
CONSTRUCTION	<p>CorJen Construction LLC c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack</p>

**PARCEL 200-B – Harbor Trail – PHASE I**

DEVELOPER: GROUND LESSEE – HARBOR TRAIL PARCEL	Crosstown Center Common Area LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
FEE OWNER AND GROUND LESSOR	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
MANAGER AND HOTEL MEMBER OF CROSSTOWN CENTER COMMON AREA LLC; MEMBER OF CROSSTOWN CENTER OFFICE LLC:	Crosstown Center Hotel LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
OFFICE MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	CJ Crosstown LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	Crosstown Developers (Hotel), LLC c/o The Primary Group 60 State Street, Suite 1500 Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	The Primary Corporation The Primary Group 60 State Street, Suite 1500

	Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	Thomas F. Welsh & Associates, Inc. Thomas F. Welch 101 Federal Street Suite 1900 Boston, MA 02110
MANAGER OF CROSSTOWN DEVELOPERS (HOTEL) LLC	Development by Design Eugene Sisco 115 Peases Point Way Edgartown, MA 02539
MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CROSSTOWN CENTER OFFICE LLC	Crosstown Developers (Office) LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
VERIZON EASEMENT:	Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager
KEYSPAN EASEMENT:	KeySpan Energy Delivery New England 201 Rivermore Street West Roxbury, MA 02132 Att: Frank Duggan, Key Account Executive  Keyspan Energy Delivery New England One Beacon Street Boston, MA 02108 Att: Thomas O'Neill, Esq., Senior Counsel
BECO/NSTAR EASEMENT	Boston Edison Company Nstar 1165 Massachusetts Avenue Dorchester, MA 02125 Att: Rights and Permits Department

**PARCELS 200-C1 and 200-C2 – Office and Parking – PHASE II**

GROUND TENANT	MEPT Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MANAGING MEMBER OF TENANT	NewTower Trust Company, Trustee of NewTower Trust Company Multi-Employer Property Trust 3 Bethesda Metro Center Suite 1600 Bethesda, MD 20814 ATTN: Patrick Mayberry, President
FEE OWNER AND GROUND LESSOR	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
PARKING GARAGE TENANT	Crosstown Center Garage LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
TENANT - PARCELS 200-D1 and 200-D2	Crosstown Center Office II LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MORTGAGE BETWEEN BRA AND PUBLIC FACILITIES COMMISSION	City of Boston Public Facilities Commission 26 Court Street Boston, MA 02108 ATTN: Director of the Department of Neighborhood Development
CONSENT AND SUBORDINATION AGREEMENT	City of Boston Public Facilities Commission Director of the Department of Neighborhood Development 26 Court Street Boston, MA 02108
OFFICE TENANT	Trustees of Boston University c/o V.P. Financial Affairs

	<p>Boston University 881 Commonwealth Avenue Boston, MA 02215</p> <p>Office of the General Counsel Boston University 125 Bay State Road Boston, MA 02215 Attention: General Counsel</p>
OFFICE TENANT	<p>Brigham and Women's Hospital Inc. c/o Partners HealthCare System, Inc. 55 Fruit Street Ruth Sleeper Hall Boston, MA 02114-2696 Attention: Director of Real Estate Department</p> <p>with copies to:</p> <p>Office of the General Counsel Partners HealthCare System, Inc. 50 Stamford Street, Suite 1000 Boston, MA 02114-2521</p> <p>Brigham and Women's Hospital, Lie. 75 Francis Street Boston, MA 02115 Attention: Vice President, Support Services</p> <p>And</p> <p>McCall &amp; Almy, Inc. One Post Office Square Boston, MA 02109 Attn: Partners HealthCare System, Inc.</p>
EASEMENT	<p>Boston Water and Sewer Commission 980 Harrison Avenue Boston, MA 02119 Attn: General Counsel</p>
VERIZON EASEMENT:	<p>Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager</p>
KEYSPAN EASEMENT:	<p>KeySpan Energy Delivery New England 201 Rivermore Street</p>

	<p>West Roxbury, MA 02132        Att: Frank Duggan, Key Account Executive</p> <p>Keyspan Energy Delivery New England        One Beacon Street        Boston, MA 02108        Att: Thomas O'Neill, Esq., Senior Counsel</p>
BECO/NSTAR EASEMENT	<p>Boston Edison Company        Nstar        1165 Massachusetts Avenue        Dorchester, MA 02125        Att: Rights and Permits Department</p>

**PARCELS 200-D1 and 200-D2 -PHASE III**

FEE OWNER

Boston Redevelopment Authority  
1 City Hall Square, 9 th Floor  
Boston, MA 02201-1007  
Attention: Janet Carlson



2008 00015850

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✓

*Attested hereto*

*Francis M. Roache*  
 Francis M. Roache  
 Register of Deeds

Form 1075**NOTICE OF ACTIVITY AND USE LIMITATION**

M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: Former National Lead Company  
 DEP Release Tracking No. 3-0245

This Notice of Activity and Use Limitation ("Notice") is made as of the 19th day of December 2007, by the Boston Redevelopment Authority, a public body, corporate and politic, established pursuant to the provisions of Massachusetts General Laws Chapter 121B, as amended, having a usual place of business at One City Hall Plaza, Boston, Massachusetts 02201, together with its successors and assigns (collectively, "Owner").

**WITNESSETH:**

WHEREAS, the Owner is the owner in fee simple of that certain parcel of land located at and known as 7-17 Melnea Cass Boulevard, Boston, Suffolk County, Massachusetts 02118-2605 [800 Albany Street], with the buildings and improvements thereon, pursuant to an Order of Taking dated August 1, 2002 and recorded with the Suffolk County Registry of Deeds in Book 29152, Page 191;

WHEREAS, said parcel of land, which is more particularly bounded and described in Exhibit A, attached hereto and made a part hereof ("Property"), is subject to this Notice of Activity and Use Limitation. The Property is shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts" dated August 1, 2005 prepared by Harry R. Feldman" recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960;

WHEREAS, the Property comprises part of a disposal site as the result of a release of oil and hazardous material. Exhibit B is a sketch plan showing the relationship of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site (to the extent such boundaries have been established). Exhibit B is attached hereto and made a part hereof; and,

*Gordon Proctor LLP  
 53 State Street  
 Boston MA 02109*

10/2/2007

WHEREAS, one or more response actions have been selected for the disposal site in accordance with M.G.L. c. 21e ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and hazardous material in soil, and (b) the restriction of certain activities occurring in, on, through, over or under the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion") dated October 2, 2007 (which is attached hereto as Exhibit C and made a part hereof):

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

- 1) Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Property:
  - a) Any non-residential uses of the Property, including those that are currently conducted;
  - b) Any construction projects that involve the excavation, relocation or removal of the contaminated soils, provided that (i) such a project is undertaken under the supervision of an Licensed Site Professional ("LSP") and in accordance with the performance standards for Utility Related Abatement Measures ("URAM") set forth in 310 CMR 40.0460 or the performance standards for a Release Abatement Measure ("RAM") set forth in 301 CMR 40.0440, as appropriate, and (ii) the construction personnel involved are OSHA-qualified in accordance with 40 C.F.R. §1910.120 and there is a Property-specific health and safety plan prepared for hazardous materials operations;
  - c) Other activities or uses of the Property not identified in Paragraph 2 as Activities and Uses Inconsistent with the AUL; and
  - d) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to human health, safety, public welfare or the environment than the activities and uses set forth in this paragraph.
- 2) Activities and Uses Inconsistent with the AUL Opinion. Activities and uses which are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Property, may result in a significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:
  - a) Use of the Property as a residence or for growing fruits or vegetables for human consumption;
  - b) Any Activity at the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils, unless such activity involves limited,

short-term utility or construction work conducted in accordance with (i) the performance standards for URAMs set forth in 310 CMR 40.0460, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such URAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any utility worker and/or construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways; and

- c) Construction of buildings, building additions, or other work, specifically within the Property boundaries, that is reasonably likely to result in excavation, relocation or removal of, the contaminated soils, unless such activity is conducted in accordance with (i) the performance standards for RAMs as set forth in 310 CMR 40.0440, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such RAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.
- 3) Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Property to maintain a condition of No Significant Risk, as set forth in the AUL Opinion, shall include the following:
  - a) Any activity at or use of the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils requires preparation and implementation of a Health and Safety Plan under the guidance of an LSP. At a minimum, the Health and Safety Plan must inform underground utility workers and other workers who may come into contact with soils in the AUL area of (1) the nature and hazards of the contaminants identified in the soils, (2) potential exposure routes, (3) measures to prevent exposure, (4) protective clothing requirements, and (4) any other health and safety measures appropriate for the activity or use;
  - b) Any excavation, relocation or removal of the contaminated soils at the Property requires preparation and implementation of a written Excavation Plan and a written Soil/Fill Material Management Plan under the guidance of an LSP. At a minimum, the Excavation Plan must (1) describe the soil stockpile storage methods that will be used to prevent accidental exposure to the excavated soils, including indirect exposure via surface water runoff or fugitive dust emissions, (2) contain procedures to limit access to the excavated soils and the excavation area by Property workers not covered by the Health and Safety Plan, children, Property abutters or accidental trespassers, (3) contain procedures for characterizing and disposing excavated soils, and (4) provide for the restoration of the excavated area as soon as practicable. At a minimum, the Soil/Fill Material Management Plan must describe the soil excavation, handling, storage, reuse, transport and disposal procedures to be used during such excavation, relocation or removal activities, including the engineering controls and any air monitoring procedures necessary to ensure that

human or environmental receptors are not impacted by fugitive dust, particulates, or exposure to contaminated soil or fill material; and

- c) Any soils removed from the Property must be characterized and disposed of in accordance with federal, state and local regulations.
- 4) Proposed Changes in Activities and Uses. Any proposed changes in activities and uses at the Property that may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.
- 5) Violation of a Response Action Outcome. The activities, use and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk or harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Property subject to this Notice at the time that the activities, uses and/or exposure change, shall comply with the requirements set forth in 310 CMR 40.0020

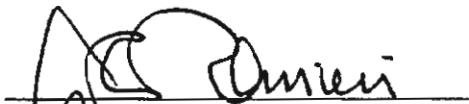
- 6) Incorporation Into Deeds, Mortgages, Leases and Instruments of Transfer. This Notice shall be incorporated either in full or by reference into all deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

[The remainder of this page is intentionally blank.]

Owner hereby authorizes and consents to the filing and recordation of this Notice, said Notice to become effective when executed under seal by the undersigned LSP, and recorded with the appropriate Registry of Deeds.

WITNESS the execution hereof under seal this 19<sup>th</sup> day of December, 2007.

BOSTON REDEVELOPMENT AUTHORITY, Owner



By: John F. Palmieri

Title: Director

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

Dec 19, 2007

On this 19<sup>th</sup> day of December, 2007, before me, the undersigned notary public, personally appeared John F. Palmieri, proved to me through satisfactory evidence of identification, which was personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose as Director of the Boston Redevelopment Authority, a public body, corporate and politic, established pursuant to the provisions of Massachusetts General Laws Chapter 121B, as amended.



(official signature and seal of notary)



ELLEN T. HARROWER  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 21, 2008

[The remainder of this page is intentionally blank.]

The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

Date: 1/30/08

*Anthony F. Andronico*  
Anthony F. Andronico  
/LSP/SEAL



COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

1/30/, 2008

On this 30 day of January, 2008, before me, the undersigned notary public, personally appeared Anthony F. Andronico, proved to me through satisfactory evidence of identification, which were MDL 55396246, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose as Licensed Site Professional for Gannett Fleming, Inc. (a corporation).

Elizabeth Hurny (official signature and seal of notary)

Upon recording, return to:  
Boston Redevelopment Authority  
Attn: Janet Carlson  
One City Hall Plaza  
Boston, MA 02201

**EXHIBIT A**

AUL Parcel Descriptions



**Activities and Use Limitation Area 200-A1**  
(Lease Parcel 200-A1)

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the southeasterly corner of the parcel at a point on the westerly sideline of Massachusetts Avenue. Said point being approximately 40 feet northwesterly from the intersection of the northerly sideline of Melnea Cass Boulevard with the westerly sideline of Massachusetts Avenue;

Thence running S 42° 52' 55" W, a distance of 162.91 feet to a point of curvature;

Thence running southwesterly along a curve to the right, having a radius of 1160.00 feet, a length of 267.99 feet to a point of compound curvature;

Thence running southwesterly along a curve to the right, having a radius of 1494.00 feet, a length of 165.35 feet to a point being the southeasterly corner of Lease Parcel 200-C2;

Thence turning and miming N 42° 26' 53" W, a distance of 11.45 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 0.70 feet to a point;

Thence turning and running N 42° 26' 53" W, a distance of 117.88 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 273.35 feet to a point;

Thence turning and running S 42° 26' 53" E, a distance of 0.29 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 11.68 feet to a point;

Thence turning and running N 42° 26' 53" W, a distance of 29.42 feet to a point of curvature;

Thence running northwesterly along a curve to the left, having a radius of 52.00 feet, a length of 28.23 feet to a point of reverse curvature;

Thence running northwesterly along a curve to the right, having a radius of 206.00 feet, a length of 85.33 feet to a point of tangency;

Thence running N 49° 49'18" W a distance of 14.67 feet to a point of curvature;

Thence running westerly along a curve to the left having a radius of 14.00 feet, a length of 19.33 feet to a point of non-tangency on the southerly sideline of Albany Street;

The preceding eleven courses run along the easterly and southerly boundary of Lease Parcel 200-C2 and Lease Parcel 200-D1.

Thence turning and running along the southerly sideline of Albany Street N 39° 33'18" E a distance of 29.38 feet to a point of curvature;

Thence running along the southerly sideline of Albany Street along a curve to the right having a radius of 800.00 feet, a length of 40.75 feet to a point of non-tangency;

Thence turning and running southeasterly along a curve to the left having a radius of 15.00 feet, a length of 15.73 feet to a point of tangency;

Thence running S 49° 10' 57" E, a distance of 20.00 feet;

Thence turning and running S 52° 51' 10" E, a distance of 41.50 feet;

Thence turning and running S 57° 25' 16" E, a distance of 14.74 feet;

Thence turning and running S 41° 45' 13" E, a distance of 30.22 feet;

Thence turning and running N 48° 14' 47" E, a distance of 120.99 feet to a point of curvature;

Thence running easterly along a curve to the right, having a radius of 40.00 feet, a length of 58.28 feet to a point of tangency;

Thence turning and running S 48° 16' 47" E, a distance of 39.76 feet;

Thence turning and running N 48° 14' 47" E, a distance of 100.59 feet to a point on the westerly sideline of Massachusetts Avenue;

The preceding nine courses run along the easterly and southerly boundary of Lease Parcel 200-C1.

Thence turning and running S 42° 27' 54" E, along said westerly sideline of Massachusetts Avenue, a distance of 5.81 feet;

Thence turning and running S 48° 47' 58" E, along said westerly sideline of Massachusetts Avenue, a distance of 128.08 feet to the point of beginning.

Containing an area of 107,916 square feet or 2.477 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job # 10189 AUL AREA 200-A1

**Activities and Use Limitation Area 200-B**  
**(Lease Parcel 200-B)**

A certain lease parcel situated in the city of Boston, Suffolk County, Commonwealth of Massachusetts comprised of a portion of Lot 200 and a parcel, HT, created by the discontinuance of a portion of Melnea Cass Boulevard, Hampden Street, and Massachusetts Avenue bounded and described as follows:

Beginning at the southeasterly corner of lease parcel 200A at a jog in the westerly sideline of Massachusetts Avenue. Said point being approximately 30 feet northwesterly of the intersection of the northerly sideline of Melnea Cass Boulevard with said westerly sideline of Massachusetts Avenue;

Thence running northeasterly along the sideline of Massachusetts Avenue N 42° 52' 55"E, a distance of 7.10 feet to a point on the westerly sideline of Massachusetts Avenue;

Thence turning and running S 48° 47' 58" E, a distance of 29.87 feet along said westerly sideline of Massachusetts Avenue to a point of curvature;

Thence running along said westerly sideline of Massachusetts Avenue on a curve to the right, having a radius of 40.00 feet, a length of 63.72 feet to a point of compound curvature on said northerly sideline of Melnea Cass Boulevard;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 1400.00 feet, a length of 108.50 feet to a point of compound curvature;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 2000.00 feet, a length of 336.13 feet to a point of compound curvature;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 1300.00 feet, a distance of 246.42 feet to a point of tangency;

Thence running S 67° 24' 05" W, along said northerly sideline of Melnea Cass Boulevard, a distance of 67.57 feet to a point of curvature at the intersection of said northerly sideline of Melnea Cass Boulevard and the easterly sideline of Hampden Street;

Thence running along a curve to the right, having a radius of 25.00 feet, a length of 31.61 feet to a point of tangency on said easterly sideline of Hampden Street;

Thence running N 40° 08' 37" W, along said easterly sideline of Hampden Street, a distance of 41.42 feet to a point of non-tangency;

Thence turning and running northeasterly along the sideline of Hampden Street along a curve to the left having a radius of 1494.00 feet a length of 8.64 feet to the easterly sideline of Hampden Street;

Thence continuing northeasterly along a curve to the left, having a radius of 1494.00 feet, a length of 362.15 feet to a point of compound curvature;

Thence running northeasterly along a curve to the left, having a radius of 1160.00 feet, a length of 267.99 feet to a point of tangency;

Thence running N 42° 52' 55" E, a distance of 162.91 feet to the point of beginning.

Containing an area of 48,132 square feet or 1.105 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189, AUL AREA 200-B

**Activities and Use Limitation Area 200-C1**  
**(Lease Parcel 200-C1)**

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the northeasterly corner of the parcel at a point of tangency on the westerly sideline of Massachusetts Avenue. Said point being approximately 25 feet southeasterly of the intersection of said westerly sideline of Massachusetts Avenue and the southerly sideline of Albany Street;

Thence turning and running S 47° 32' 06" W along said westerly sideline of Massachusetts Avenue, a distance of 12.00 feet;

Thence turning and running S 42° 27' 54" E along said westerly sideline of Massachusetts Avenue, a distance of 15.00 feet;

Thence turning and running N 47° 32' 06" E along said westerly sideline of Massachusetts Avenue, a distance of 12.00 feet;

Thence turning and running S 42° 27' 54" E along said westerly sideline of Massachusetts Avenue, a distance of 158.99 feet;

Thence tuning and running S 48° 14' 47" W, a distance of 100.59 feet;

Thence turning and running N 48° 16' 47" W, a distance of 39.76 feet to a point of curvature;

Thence running along a curve to the left, having a radius of 40.00 feet, a length of 58.28 feet to a point of tangency;

Thence turning and running S 48° 14' 47" W, a distance of 120.99 feet;

Thence turning and running N 41° 45' 13" W, a distance of 30.22 feet;

Thence turning and running N 57° 25' 16" W, a distance of 14.74 feet;

Thence turning and running N 52° 51' 10" W, a distance of 41.50 feet;

Thence running N 49° 10' 57" W, a distance of 20.00 feet to a point of curvature;

Thence running along a curve to the right, having a radius of 15.00 feet, a length of

15.73 feet to a point on a curve on the southerly sideline of Albany Street;

The preceding nine courses run along the southerly and westerly boundary of Lease Parcel 200-A1;

Thence running northeasterly along said southerly sideline of Albany Street along a curve to the right, having a radius of 800.00 feet, a length of 48.55 feet to a point of tangency;

Thence running N 45° 57' 02" E along said southerly sideline of Albany Street, a distance of 38.40 feet;

Thence turning and running N 56° 02' 59" E along the southerly sideline of Albany Street, pursuant to a widening of said street a distance of 37.03 feet;

Thence turning and running N 45° 57' 02" E along said proposed southerly sideline of Albany Street, a distance of 123.08 feet to a point of curvature at the intersection of said proposed southerly sideline of Albany Street and said westerly sideline of Massachusetts Avenue;

Thence running along said westerly sideline of Massachusetts Avenue on a curve to the right, having a radius of 25.00 feet, a length of 39.96 feet to the point of beginning.

Containing an area of 40,732 square feet or 0.935 acre as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**Activities and Use Limitation Area 200-C2**  
(Lease Parcel 200-C2)

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the southerly sideline of Albany Street which is the intersection of the northeasterly sideline of Hampden Street with the southerly sideline of Albany, thence running along said sideline N 53° 40' 41" E, a distance of 73.81 feet, thence turning and running S 37° 28' 04" E, a distance of 82.94 feet to the point of beginning;

Thence turning and running N 47° 33' 07" E, a distance of 329.38 feet along the southeasterly boundary of Lease Parcel 200-D1 to a point on a curve on the southwesterly boundary of Lease Parcel 200-A1;

Thence turning and running southeasterly along a curve to the left, having a radius of 206.00 feet, a length of 37.83 feet to a point of reverse curvature;

Thence running along a curve to the right, having a radius of 52.00 feet, a length of 28.23 feet a point of tangency;

Thence turning and running S 42° 26' 51" E , a distance of 29.42 feet;

Thence turning and running S 47° 33' 07" W, a distance of 11.68 feet;

Thence turning and running N 42° 26' 53" W; a distance of 0.29 feet;

Thence turning and running S 47° 33' 07" W, a distance of 273.35 feet;

Thence turning and running S 42° 26' 53" E, a distance of 117.88 feet;

Thence turning and running S 47° 33' 07" W, a distance of 0.70 feet;

Thence turning and running S 42° 26' 53" E, a distance of 11.45 feet to a point on a curve on the northwesterly boundary of Lease Parcel 200-B 1;

The preceding nine courses run along the easterly and southerly boundary of Lease Parcel 200-A1.

Thence turning and running along Lease Parcel 200-B, westerly along a curve to the right, having a radius of 1494.00 feet, a length of 135.63 feet to a point at the intersection of Lease Parcels 200-B1, 200-D2, and 200-C2;

Thence turning and running N 42° 26' 53" W, a distance of 171.81 feet along the northeasterly boundary of Lease Parcel 200-D2 to a point on the southeasterly boundary of land now or formerly of Boston Edison Company;

Thence turning and running N 52° 31' 56" E, a distance of 60.89 feet;

Thence turning and running N 37° 28' 04" W, a distance of 12.06 feet along land now or formerly Boston Edison Company to the point of beginning.

Containing an area of 50,467 square feet or 1.159 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189 AULAREA 200-C2

**Activities and Use Limitation Area 200-D1**  
**(Lease Parcel 200-D1)**

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the southerly sideline of Albany Street which is the intersection of the northeasterly sideline of Hampden Street with the southerly sideline of Albany, thence running along said sideline N 53° 40' 41" E, a distance of 73.81 feet to the point of beginning;

Thence turning and running N 53° 40' 41" E along said southerly sideline of Albany Street, a distance of 50.01 feet;

Thence turning and running N 52° 31' 55" E along said southerly sideline of Albany Street, a distance of 111.93 feet to a point of curvature;

Thence running northeasterly along said southerly sideline of Albany Street along a curve to the left, having a radius of 534.00 feet, a length of 120.95 feet to a point of tangency;

Thence running N 39° 33' 18" E along said southerly sideline of Albany Street, a distance of 14.08 feet to a point of curvature;

Thence running along a curve to the right, having a radius of 14.00 feet, a length of 19.33 feet a point of tangency;

Thence running S 49° 49' 18" E, a distance of 14.67 feet to a point of curvature;

Thence running southeasterly along a curve to the left, having a radius of 206.00 feet, a length of 47.50 feet to a point;

The previous three courses run along the southwesterly boundary of Lease Parcel 200-A1.

Thence turning and running S 47° 33' 07" W, a distance of 329.38 feet along the northwesterly boundary of Lease Parcel 200-C2 to a point;

Thence turning and running N 37° 28' 04" W, a distance of 82.94 feet along land now or formerly Boston Edison Company to the point of beginning.

Containing an area of 22,646 square feet or 0.520 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189 AUL AREA 200-DI

**Activities and Use Limitation Area 200-D2**

(Lease Parcel 200-D2)

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the northerly sideline of Melnea Cass Boulevard which is the intersection of the northeasterly sideline of Hampden Street with the northerly sideline of Melnea Cass Boulevard, thence running along said sideline N 40° 10' 44" W, a distance of 35.48 feet, to the point of beginning;

Thence running N 40° 10' 44" W, along said easterly sideline of Hampden Street, a distance of 154.16 feet;

Thence turning and running N 52° 31' 56" E, a distance of 51.08 feet along the southerly boundary of land now or formerly of Boston Edison Company;

Thence turning and running S 42° 26' 53" E, a distance of 171.81 feet along the westerly boundary of Lease Parcel 200-C2 to a point on the northerly boundary of Lease Parcel 200-B;

Thence turning and running along said boundary, westerly along a curve to the right, having a radius of 1494.00 feet, a length of 61.17 feet to the point of beginning.

Containing an area of 8,842 square feet or 0.203 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**Activities and Use Limitation Area AW**  
(Parcel AW)

An activities and use limitation area of land situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the southeasterly corner of the parcel at a point of curvature on the westerly sideline of Massachusetts Avenue. Said point being approximately 25 feet southeast of the intersection of said westerly sideline of Massachusetts Avenue and the southerly sideline of Albany Street;

Thence running northwesterly along the southerly sideline of Albany Street pursuant to a widening along a curve to the left, having a radius of 25.00 feet; a length of 39.96 feet to a point of tangency;

Thence turning and running along said southerly sideline of Albany Street S 45° 57' 02" W, a distance of 123.08 feet;

Thence turning and running along said southerly sideline of Albany Street S 56° 02' 59" W, a distance of 37.03 feet;

Thence turning and running N 45° 57' 02" E along the previous southerly sideline of Albany Street, a distance of 178.21 feet to a point of curvature at the intersection of said southerly sideline of Albany Street and said westerly sideline of Massachusetts Avenue;

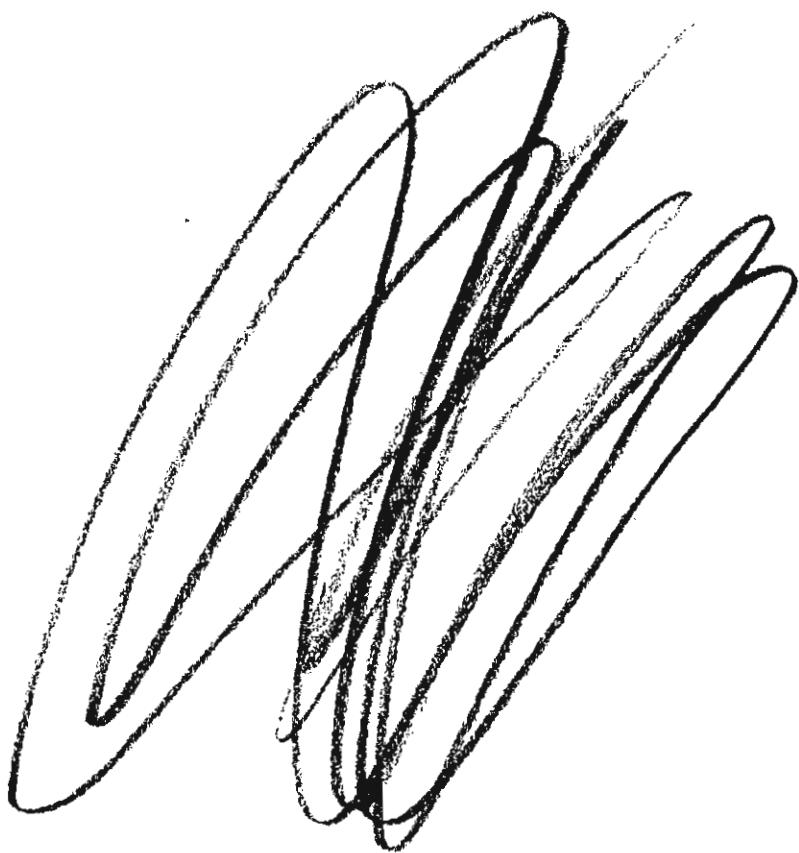
Thence running along a curve to the right, having a radius of 7.00 feet, a length of 11.19 feet to a point of tangency on the westerly sideline of Massachusetts Avenue;

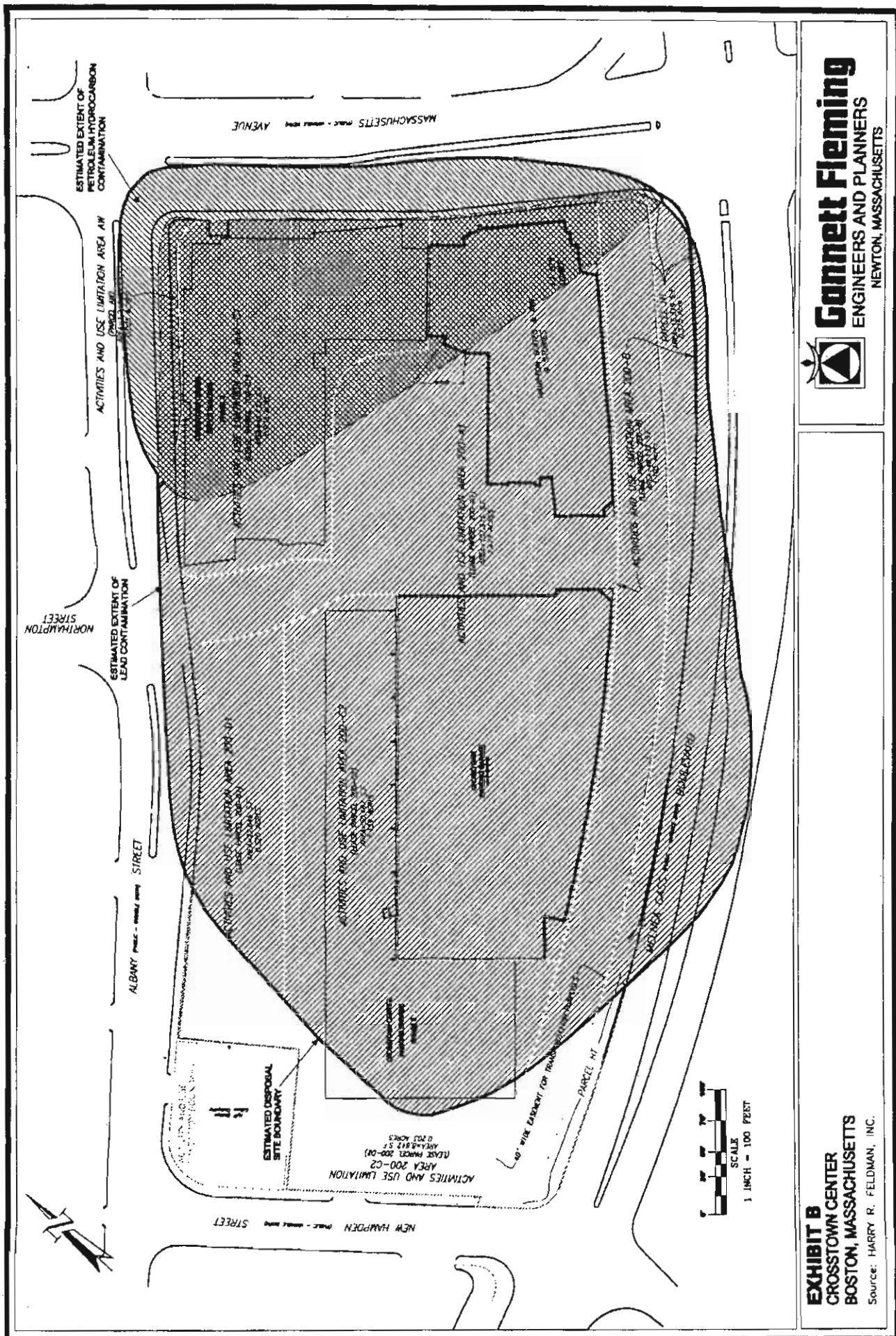
Thence running S 42° 27' 54" E along said previous westerly sideline of Massachusetts Avenue, a distance of 25.00 feet to the point of beginning.

Containing an area of 1,217 square feet or 0.028 acre as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**EXHIBIT B**

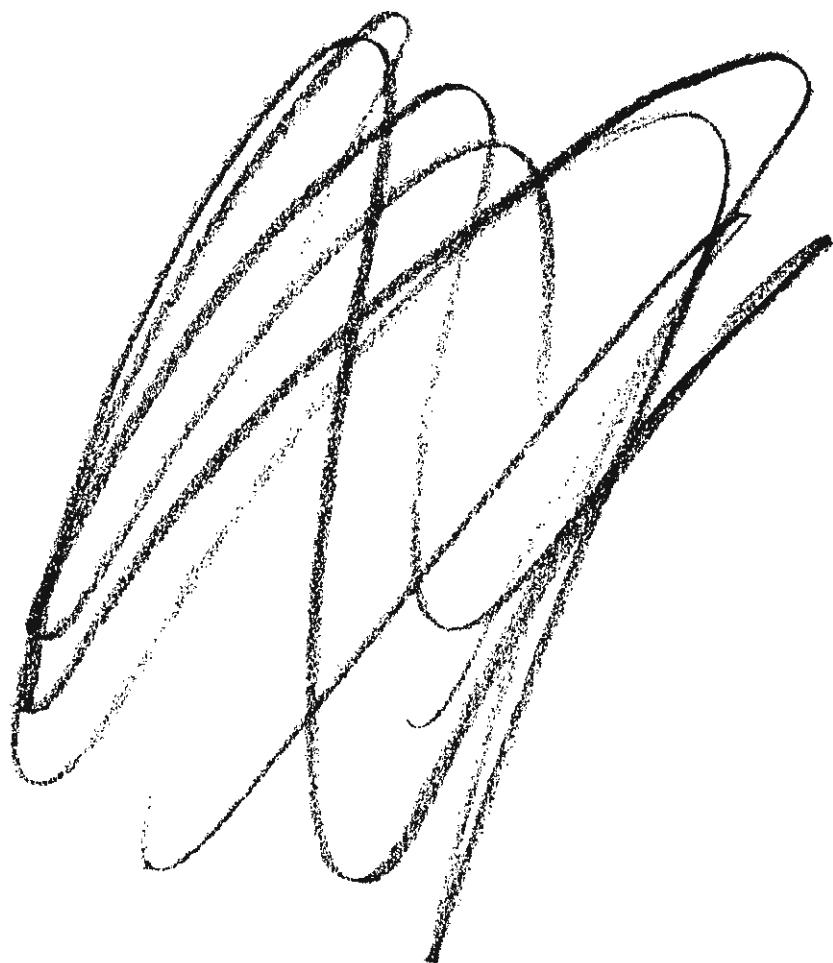
Relationship of Property Subject to the AUL  
to the Disposal Site Boundaries





## EXHIBIT C

### Activity and Use Limitation Opinion Narrative



## **ACTIVITY AND USE LIMITATION OPINION**

### **1.0 Introduction**

This Licensed Site Professional (LSP) Opinion for the Notice of Activity and Use Limitation (AUL) was prepared by Anthony F. Andronico (LSP No. 6105) of Quincy, Massachusetts on behalf of CJ Crosstown LLC for a release at the Former National Lead Company site on Albany Street and Massachusetts Avenue in Boston, Massachusetts. This LSP Opinion was prepared in accordance with 310 CMR 40.1074 and (1) explains why implementation of the AUL is appropriate to maintain a level of No Significant Risk at the Property (as defined in the AUL), (2) describes activities and uses prohibited in the area of the Property to be subject to the AUL, (3) identifies permitted activities and uses in the AUL area, and (4) identifies conditions or obligations for the AUL area in order to maintain a level of No Significant Risk.

### **2.0 Property Background**

During the early 1800s, the Property and surrounding area were part of a salt marsh for the South Bay. This entire area was filled with materials of unknown origin to prepare for development. Lead manufacturing occurred at the Property from the mid-to-late 1800s through the 1960s, and two different gasoline stations operated at the Property from the 1930s through the 1980s, one at the Massachusetts Avenue/Albany Street intersection and the other on Massachusetts Avenue. The National Lead Company, Boston Lead Manufacturing Company and Chadwick-Boston Lead Company all conducted operations at the Property, primarily paint pigment manufacturing. Plumbing equipment suppliers and other industries have also operated at the Property.

A review of historic maps indicates that the street layout in the area of the Property has changed extensively since the late 1970s. Following a 1978 land taking by the Boston Redevelopment Authority Economic Development and Industrial Commission, the construction of Melnea Cass Boulevard and the former Digital Equipment Corporation building in about 1979 resulted in a significant realignment of the Property's boundaries, including the abandonment of then-existing streets and businesses. The current Property boundaries encompass most of the area where the former lead manufacturing and other industrial operations occurred. Lead manufacturing took place along the northeastern intersection of the former Island and Hampden Streets, in the present-day western third of the Property. Other uses beyond the former boundaries of the lead manufacturing operations but within present-day Property boundaries included a lumber yard, a stone yard, a sheet metal and wood working shop, and a wagon shed on the eastern portion of the Property. As early as 1937, an auto body shop, two auto repair shops and two filling stations occupied the area southwest of the Albany Street/Massachusetts Avenue intersection, which is the present-day northwest corner of the Property. Another auto body shop occupied the area southeast of the former Southampton Street and Reading Street intersection, which is the present-day area along Melnea Cass Boulevard up to its intersection with Massachusetts Avenue.

The release at the Property has been assigned Massachusetts Department of Environmental Protection (MassDEP) Release Tracking No. 3-0245. Environmental assessments performed at the Property beginning in 1989 found elevated levels of metals (primarily lead), petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAHs) in soil, and further investigation was subsequently performed. In 2002, a Release Abatement Measure (RAM) Plan was filed with the

MassDEP, and remediation work commenced in support of Property redevelopment. The remediation included the on-site stabilization and off-site disposal of lead-contaminated soil and PAH and petroleum hydrocarbon-contaminated soil, and the removal of abandoned underground storage tanks that were encountered in the former gasoline station locations. Over 15,000 cubic yards of soil were removed from the Property during remediation. Post-remediation site characterization data is presented in an August 2006 Phase II Comprehensive Site Assessment (CSA) prepared by Gannett Fleming, Inc.

Although the remediation efforts significantly improved site conditions and reduced the levels of contaminants present, elevated levels of lead, PAHs and petroleum hydrocarbons remain at the Property. The CSA includes a Method 3 Risk Characterization, described in more detail below.

### **3.0 Summary of the Risk Characterization**

The results of the Method 3 Risk Characterization are the basis for the decision regarding the selection of an appropriate Response Action Outcome for the release at the Property pursuant to 310 CMR 40.1000. A summary of the Risk Characterization is presented below.

The Property was under active redevelopment at the time of the Risk Characterization. Construction of Phase I, consisting of a Hampton Inn Hotel and parking garage, had been completed, as had construction of the Harbor Trail at the Property. Phase II of construction was in progress, and Phase III plans had not been prepared. The expected site reuse was commercial, and under current and future conditions, receptors reasonably likely to be present on-site included commercial workers and customers, visitors, landscapers, utility workers and construction workers.

Based on the Property redevelopment plans, the Property was divided into four separate exposure units: Phases I, II and III of the development, and the Harbor Trail. The Risk Characterization determined that "No Significant Risk" of harm to human health exists at the Property for each receptor type considered in the risk characterization. It also determined that "No Significant Risk" of harm to safety, public welfare and the environment exists at the Property.

### **4.0 Use of the AUL to Maintain a Level of No Significant Risk**

As described in the Risk Characterization, a condition of No Significant Risk to human health, safety public welfare and the environment currently exists at the Property. However, this conclusion is based on the assumption that the Property will not be used for residential purposes or for the growing of fruits or vegetables for human consumption. (All other reasonably foreseeable site uses were considered.) In addition, because residual contamination was documented in soils, this AUL will also serve to provide appropriate notice to future Property users to exercise appropriate caution when handling soils, to ensure that unnecessary exposures do not occur, and that contaminated materials are handled appropriately.

## **5.0 Restricted Activities and Uses**

Activities and uses that are inconsistent with the objectives of this Notice of AUL, and that, if implemented at the Property, may result in a significant risk of harm to human health, safety, or public welfare, are as follows:

- 1) Use of the area defined in the AUL as the Property as a residence or for growing fruits or vegetables for human consumption.
- 2) Any Activity at the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils unless such activity involves limited, short-term utility or construction work conducted in accordance with (i) the performance standards for Utility Related Abatement Measures (URAM) set forth in 310 CMR 40.0460, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such URAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any utility worker and/or construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.
- 3) Construction of buildings, building additions, or other work, specifically within the Property boundaries, that is reasonably likely to result in the excavation, relocation or removal of the contaminated soils unless such activity is conducted in accordance with (i) the performance standards for a Release Abatement Measure (RAM) as set forth in 310 CMR 40.0440, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such RAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.

## **6.0 Acceptable Activities and Uses**

The AUL Opinion provides that a condition of No Significant Risk to health, safety, or public welfare exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Property:

- 1) Any non-residential uses of the Property, including those that are currently conducted;
- 2) Any construction projects that involve the excavation, relocation or removal of, the contaminated soils, provided that (i) such a project is undertaken under the supervision of an LSP and in accordance with the performance standards for URAMs set forth in 310 CMR 40.0460 or the performance standards for RAMS set forth in 301 CMR 40.0440, as appropriate, and (ii) the construction personnel involved are OSHA-qualified in accordance with 40 C.F.R. §1910.120 and there is a Property-specific health and safety plan prepared for hazardous materials operations;

- 3) Other activities or uses of the Property not identified in the AUL as inconsistent with the AUL; and
- 4) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to human health, safety, public welfare or the environment than the activities and uses set forth in this paragraph.

## **7.0 Obligations for the AUL Area**

If applicable, obligations and/or conditions to be undertaken and/or maintained at the Property to maintain a condition of No Significant Risk, as set forth in the AUL Opinion, shall include the following:

- 1) Any activity at or use of the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils requires preparation and implementation of a written Health and Safety Plan under the guidance of an LSP. At a minimum, the Health and Safety Plan must inform underground utility workers and other workers who may come into contact with soils in the AUL area of (1) the nature and hazards of the contaminants identified in the soils, (2) potential exposure routes, (3) measures to prevent exposure, (4) protective clothing requirements, and (4) any other health and safety measures appropriate for the activity or use;
- 2) Any excavation, relocation or removal of, the contaminated soils (subsurface defined as greater than three (3) feet below ground surface) at the Property requires preparation and implementation of a written Excavation Plan and a written Soil/Fill Material Management Plan under the guidance of an LSP. At a minimum, the Excavation Plan must (1) describe the soil stockpile storage methods that will be used to prevent accidental exposure to the excavated soils, including indirect exposure via surface water runoff or fugitive dust emissions, (2) contain procedures to limit access to the excavated soils and the excavation area by Property workers not covered by the Health and Safety Plan, children, Property abutters or accidental trespassers, (3) contain procedures for characterizing and disposing excavated soils, and (4) provide for the restoration of the excavated area as soon as practicable. At a minimum, the Soil/Fill Material Management Plan must describe the soil excavation, handling, storage, reuse, transport and disposal procedures to be used during such excavation, relocation or removal activities, including the engineering controls and any air monitoring procedures necessary to ensure that human or environmental receptors are not impacted by fugitive dust, particulates, or exposure to contaminated soil or fill material; and
- 3) Any soils removed from the Property must be characterized and disposed of in accordance with federal, state and local regulations.

## **8.0 Summary and Conclusions**

This LSP Opinion has been prepared for implementation of a Notice of AUL for a release at the Former National Lead Company site on Albany Street and Massachusetts Avenue in Boston, Massachusetts. A Method 3 Risk Characterization indicates that restrictions on activities and

uses of this disposal site are required to achieve and maintain a condition of No Significant Risk to human health, safety or public welfare. In general, use of the Property for residential purposes, growing fruits or vegetables for human consumption, and activities and uses that may result in the excavation, relocation or removal of the contaminated at the Property are to be restricted.

LSP:

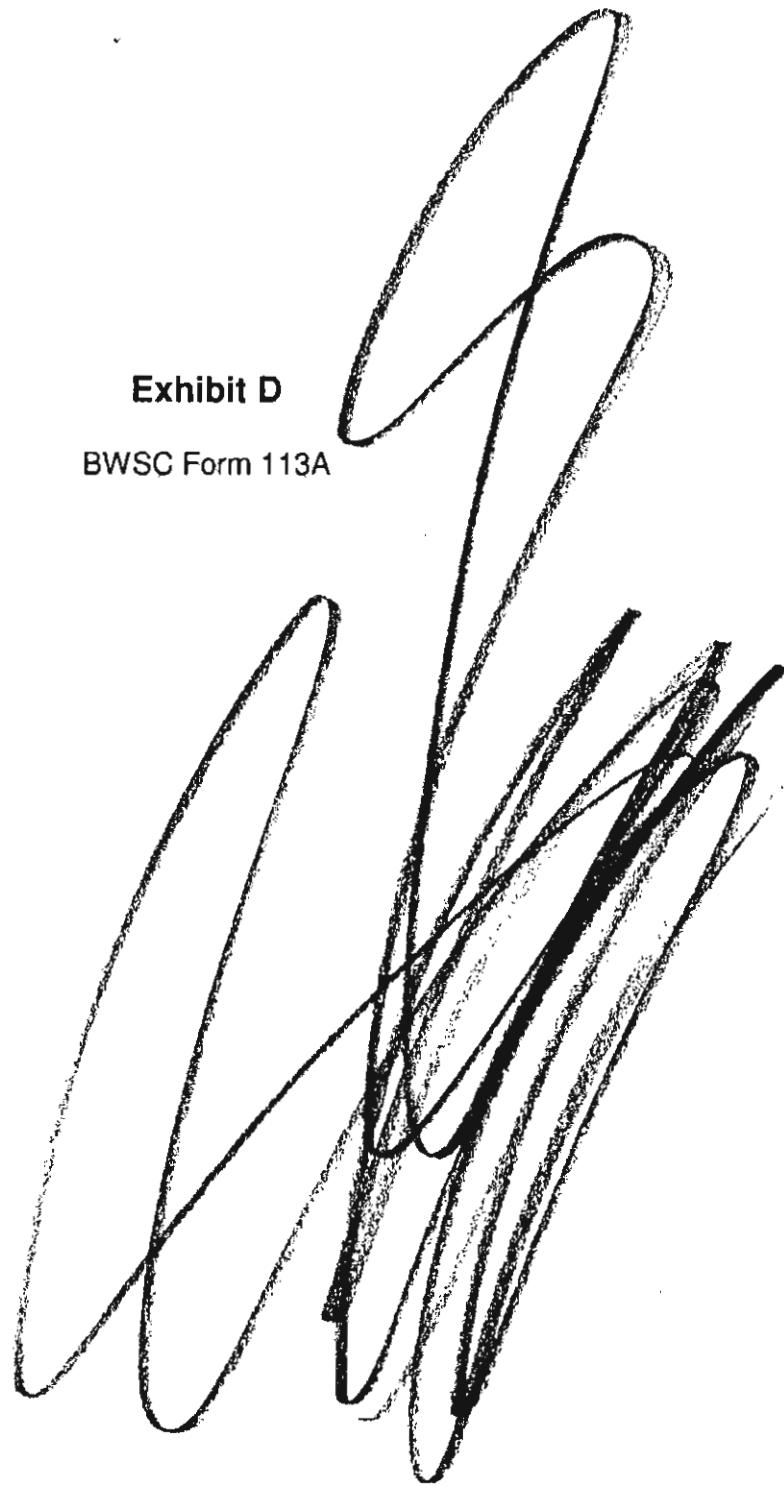
*Anthony F. Andronico*  
Anthony F. Andronico, LSP  
LSP No. 6105, Quincy, Massachusetts

DATE: October 2, 2007



**Exhibit D**

BWSC Form 113A





**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

BWSC113A

Release Tracking Number

3

- 245

**ACTIVITY & USE LIMITATION (AUL) OPINION FORM**

Pursuant to 310 CMR 40.1056 &amp; 40.1070 - 40.1084 (Subpart J)

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name: **NATIONAL LEAD CO FMR**2. Street Address: **800 ALBANY AVE**3. City/Town: **ROXBURY**4. ZIP Code: **02119-0000**

**B. THIS FORM IS BEING USED TO:** (check one)

- 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- 2. Provide the LSP Opinion for an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement**, pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.
- 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).
- 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).
- 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
- 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
- 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
- 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
- 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
- 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

**RECEIVED**

**C. AUL INFORMATION:**

1. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No     b. Yes    If yes, then fill out address section below.

FEB 29 2008

2. Street Address: \_\_\_\_\_

DEP

3. City/Town: \_\_\_\_\_

4. ZIP Code: \_\_\_\_\_

NORTHEAST REGIONAL OFFICE



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

BWSC113A

Release Tracking Number

3

- 245

**ACTIVITY & USE LIMITATION (AUL) OPINION FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

**D. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

- > If Section B indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;
- > If Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;
- > If Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;
- > If Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;
- > If Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;
- > If Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: **6105**2. First Name: **ANTHONY F**3. Last Name: **ANDRONICO**4. Telephone: **6173289229**5. Ext.: 6. FAX: 

7. Signature:

8. Date: **10/02/2007**

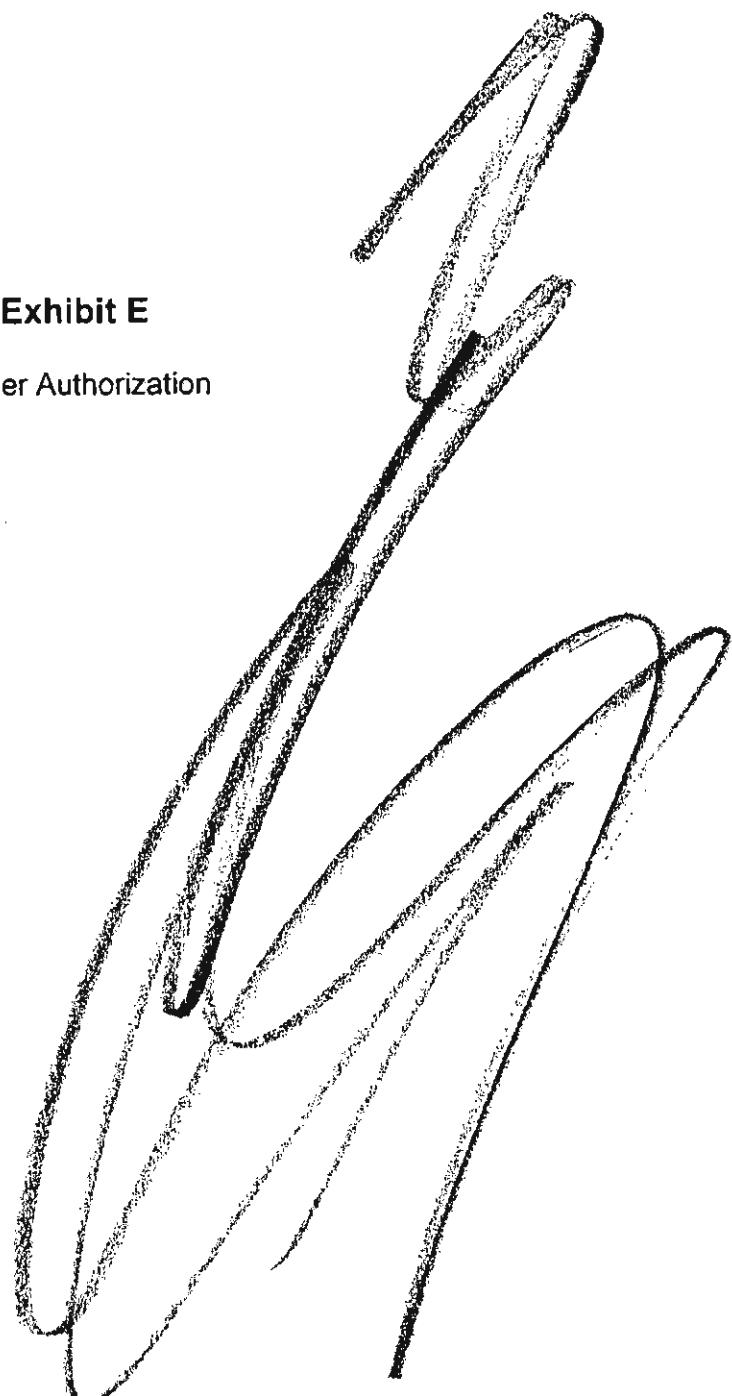
mm/dd/yyyy

9. LSP Stamp:



**Exhibit E**

Owner Authorization



CERTIFICATE OF VOTE

The undersigned hereby certifies as follows:

(1) That he is the duly qualified Secretary of the Boston Redevelopment Authority, hereinafter called the Authority, and the keeper of the records including the journal of proceedings of the Authority.

(2) That the following is a true and correct copy of a vote as finally adopted at a meeting of the Authority held on December 6, 2007 duly recorded in this office:

Copies of a memorandum dated December 6, 2007 were distributed entitled "PARCEL 200 SOUTH END URBAN RENEWAL AREA, CROSSTOWN CENTER PROJECT, ROXBURY, MASSACHUSETTS, NOTICE OF ACTIVITY AND USE LIMITATION", which included a proposed vote.

On a motion duly made and seconded, it was unanimously

VOTED: That the Boston Redevelopment Authority ("BRA") hereby authorizes the Director to execute a Notice of Activity and Use Limitation ("AUL") pursuant to Section 6 of Chapter 21E of the Massachusetts General Laws, as amended, and the Massachusetts Contingency Plan, in connection with the Crosstown Center Project for Parcel 200, also known as 7-17 Melnea Cass Boulevard, and any and all other documents deemed necessary and appropriate by the Director in connection with said AUL.

(3) That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Authority voted in a proper manner and all other requirements and proceeding under law incident to the proper adoption or the passage of said vote have been duly fulfilled, carried out and otherwise observed.

(4) That the document to which this certificate is attached was authorized by the foregoing vote.

(5) That if an impression of the seal has been affixed below, it constitutes the official seal of the Boston Redevelopment Authority, and this certificate is hereby executed under such official seal.

(6) That John F. Palmieri is the Director of this Authority.

(7) That the undersigned is duly authorized to execute this certificate.

IN WITNESS WHEREOF, the undersigned hereunto has set his hand this 17<sup>th</sup> day of December, 2007.

BOSTON REDEVELOPMENT AUTHORITY

By:   
Harry R. Collings, Secretary

LS

Recorded Land  
Register of Deeds  
Francis M. Roache

**Suffolk County**  
**SEARCH RESULTS REPORT \*\***

*\*\*Note: Report is Sorted in Ascending Order by Recorded Date, Document Number*

Run Date: 02/15/2008  
Run Time: 09:06  
Page 1 of 1

DOC #	DOCUMENT TYPE	TOWN	FILE DATE	REF BOOK	REF PAGE	REF DOCUMENT TYPE	STREET	PROPERTY DESCRIPTION
	CONSIDERATION AMT	ASSUMED MTG	BOOK/PAGE			ORDER OF TAKING		
15850	NOTICE	BOSTON .00	02/14/2008 43100199	29152	191			
	<u>GR</u>	BOSTON REDEVELOPMENT AUTHORITY						



**GANNETT FLEMING, INC.**  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
**Office:** (617) 527-7822  
**Fax:** (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 14, 2008

Mayor Thomas Menino  
Mayor's Office  
1 City Hall Square  
Boston, MA 02201

Re: Notification to Chief Municipal Officer of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mayor Menino:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,  
Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





**GANNETT FLEMING, INC.**  
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Newton, MA 02459  
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**Fax: (617) 527-7806**  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 14, 2008

Inspectional Services Department  
Gary Moccia, Commissioner  
1010 Massachusetts Avenue, 5<sup>th</sup> Floor  
Boston, MA 02118

Re: Notification to Building Code Enforcement Official of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Moccia:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





February 14, 2008

**GANNETT FLEMING, INC.**  
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Newton, MA 02459  
Office: (617) 527-7822  
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[www.gannettfleming.com](http://www.gannettfleming.com)

Boston Public Health Commission  
John Auerbach, Executive Director  
1010 Massachusetts Avenue, 2<sup>nd</sup> Floor  
Boston, MA 02118

Re: Notification to Board of Health of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Auerbach:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





February 14, 2008

**GANNETT FLEMING, INC.**  
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Newton, MA 02459  
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**Fax: (617) 527-7806**  
[www.gannettfleming.com](http://www.gannettfleming.com)

Inspectional Services Department  
Gary Moccia, Commissioner  
1010 Massachusetts Avenue, 5<sup>th</sup> Floor  
Boston, MA 02118

Re: Notification to Zoning Official of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Moccia:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in cursive ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

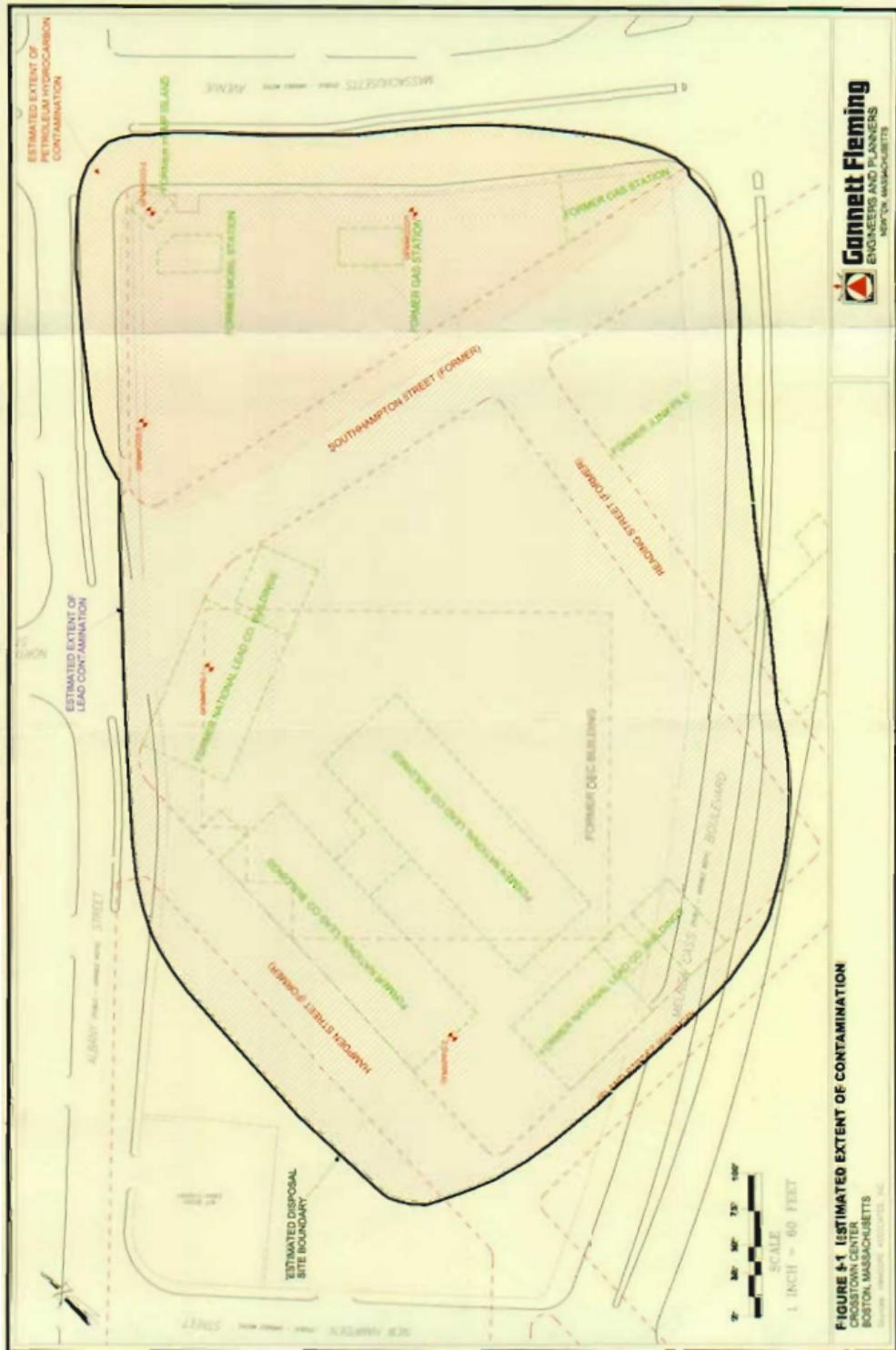
Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP











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[www.gannettfleming.com](http://www.gannettfleming.com)

March 5, 2008

Ms. Karen Stromberg  
Massachusetts Department of Environmental Protection  
Northeast Regional Office  
205B Lowell Street  
Wilmington, MA 01887

Re: Class A-3 Response Action Outcome Statement  
Former National Lead Site  
800 Albany Street  
Boston (Roxbury), MA  
MassDEP RTN 3-0245  
ACO-NE-05-3R001

Dear Ms. Stromberg:

Gannett Fleming, Inc. on behalf of CJ Crosstown, LLC is pleased to submit this Class A-3 Response Action Outcome Statement for the above-referenced site. If you have any questions or comments, please do not hesitate to contact me at (617) 328-9229.

Very truly yours,  
GANNETT FLEMING, INC.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

CC: Peter Cameron (CJ Crosstown LLC)

**RECEIVED**

MAR 07 2008

DEP  
NORTHEAST REGIONAL OFFICE





Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC104 J.R.

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

3 - 245

For sites with multiple RTNs, enter the Primary RTN above.

**A. SITE LOCATION:**

1. Site Name/Location Aid: **NATIONAL LEAD CO FMR**

2. Street Address: **800 ALBANY AVE**

3. City/Town: **ROXBURY**

4. ZIP Code: **02119**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

a. Tier IA     b. Tier IB     c. Tier IC     d. Tier II

6. If a Tier I Permit has been issued, provide Permit Number: \_\_\_\_\_

**B. THIS FORM IS BEING USED TO:** (check all that apply)

1. List Submittal Date of RAO Statement (if previously submitted): \_\_\_\_\_ mm/dd/yyyy

2. Submit a Response Action Outcome (RAO) Statement

a. Check here if this RAO Statement covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) \_\_\_\_\_ - \_\_\_\_\_    \_\_\_\_\_ - \_\_\_\_\_

3. Submit a Revised Response Action Outcome Statement

a. Check here if this Revised RAO Statement covers additional Release Tracking Numbers (RTNs), not listed on the RAO Statement or previously submitted Revised RAO Statements. RTNs that have been previously linked to a Tier Classified Primary RTN do not need to be listed here.

b. Provide additional Release Tracking Number(s) \_\_\_\_\_ - \_\_\_\_\_    \_\_\_\_\_ - \_\_\_\_\_

4. Submit a Response Action Outcome Partial (RAO-P) Statement

Check above box, if any Response Actions remain to be taken to address conditions associated with this disposal site having the Primary RTN listed in the header section of this transmittal form. This RAO Statement will record only an RAO-Partial Statement for that RTN. A final RAO Statement will need to be submitted that references all RAO-Partial Statements and, if applicable, covers any remaining conditions not covered by the RAO-Partial Statement.

Also, specify if you are an Eligible Person or Tenant pursuant to M.G.L. c. 21E §.2; and have no further obligation to conduct response actions on the remaining portion(s) of the disposal site:

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a. Eligible Person     b. Eligible Tenant

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5. Submit an optional Phase I Completion Statement supporting an RAO Statement

6. Submit a Periodic Review Opinion evaluating the status of a Temporary Solution for a Class C RAO Statement, as specified in 310 CMR 40.1051 (Section F is optional)

7. Submit a Retraction of a previously submitted Response Action Outcome Statement (Sections E & F are not required)

DEP  
NORTHEAST REGIONAL OFFICE

(All sections of this transmittal form must be filled out unless otherwise noted above)



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC104

Release Tracking Number

3 - 245

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

**C. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply; for volumes, list cumulative amounts)

- 1. Assessment and/or Monitoring Only
- 2. Temporary Covers or Caps
- 3. Deployment of Absorbent or Containment Materials
- 4. Treatment of Water Supplies
- 5. Structure Venting System
- 6. Engineered Barrier
- 7. Product or NAPL Recovery
- 8. Fencing and Sign Posting
- 9. Groundwater Treatment Systems
- 10. Soil Vapor Extraction
- 11. Bioremediation
- 12. Air Sparging
- 13. Monitored Natural Attenuation
- 14. In-situ Chemical Oxidation

15. Removal of Contaminated Soils

a. Re-use, Recycling or Treatment  i. On Site Estimated volume in cubic yards **6,500**  
 ii. Off Site Estimated volume in cubic yards **1,977**

iia. Facility Name: **AGGREGATE INDUSTRIES** Town: **STOUGHTON** State: **MA**

iib. Facility Name: \_\_\_\_\_ Town: \_\_\_\_\_ State: \_\_\_\_\_

iii. Describe: **ASPHALT BATCHING**

b. Landfill

i. Cover Estimated volume in cubic yards **13,212**

Facility Name: **SEE ATTACHMENT** Town: **VARIOUS** State: **MA**

ii. Disposal Estimated volume in cubic yards **7,961**

Facility Name: **TURNKEY** Town: **ROCHESTER** State: **MA**

16. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: **7 DRUMS OF OILY SOLIDS  
REMOVAL OF 2-1,000 GAL AND 2-500 GAL. USTS**

b. Facility Name: **E.Q. DETROIT, INC.** Town: **DETROIT** State: **MI**

c. Facility Name: **WILLIAM REISNER CORP.** Town: **CLINTON** State: **MA**

17. Removal of Other Contaminated Media:

a. Specify Type and Volume: **7.4 TONS OF TCLP LEAD IMPACTED WOOD TIMBERS  
7.9 TONS NON-HAZARDOUS IMPACTED WOOD TIMBERS**

b. Facility Name: **JONES ENV. SERVICES** Town: **LOWELL** State: **MA**

c. Facility Name: **STABLEX CANADA, INC** Town: **BLAINVILLE, CANADA** State: **QB**



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC104**

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

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**C. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply; for volumes, list cumulative amounts)

18. Other Response Actions:

Describe: **REMOVAL OF 850 GALLONS OF OILY WATER TO CYN CORP., STOUGHTON, MA (FROM USTS)**

19. Use of Innovative Technologies:

Describe: \_\_\_\_\_

**D. SITE USE:**

1. Are the response actions that are the subject of this submittal associated with the *redevelopment, reuse or the major expansion of the current use of property(ies)* impacted by the presence of oil and/or hazardous materials?

- a. Yes     b. No     c. Don't know

2. Is the property a *vacant or under-utilized commercial or industrial property ("a brownfield property")?*

- a. Yes     b. No     c. Don't know

3. Will funds from a state or federal brownfield incentive program be used on one or more of the property(ies) within the disposal site?

- a. Yes     b. No     c. Don't know    If Yes, identify program(s): \_\_\_\_\_

4. Has a Covenant Not to Sue been obtained or sought?

- a. Yes     b. No     c. Don't know

5. Check all applicable categories that apply to the person making this submittal:     a. Redevelopment Agency or Authority

- b. Community Development Corporation     c. Economic Development and Industrial Corporation

- d. Private Developer     e. Fiduciary     f. Secured Lender     g. Municipality

- h. Potential Buyer (non-owner)     i. Other, describe: \_\_\_\_\_

This data will be used by MassDEP for information purposes only, and does not represent or create any legal commitment, obligation or liability on the part of the party or person providing this data to MassDEP.

**E. RESPONSE ACTION OUTCOME CLASS:**

Specify the Class of Response Action Outcome that applies to the disposal site, or site of the Threat of Release.  
Select ONLY one Class.

1. **Class A-1 RAO:** Specify one of the following:

- a. Contamination has been reduced to background levels.     b. A Threat of Release has been eliminated.

2. **Class A-2 RAO:** You **MUST** provide justification that reducing contamination to or approaching background levels is infeasible.

3. **Class A-3 RAO:** You **MUST** provide an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to or approaching background levels is infeasible.

4. **Class A-4 RAO:** You **MUST** provide an implemented AUL, justification that reducing contamination to or approaching background levels is infeasible, and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface or below an Engineered Barrier is infeasible. If the Permanent Solution relies upon an Engineered Barrier, you must provide or have previously provided a Phase III Remedial Action Plan that justifies the selection of the Engineered Barrier.



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC104

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

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**E. RESPONSE ACTION OUTCOME CLASS (cont.):**

5. **Class B-1 RAO:** Specify one of the following:  
 a. Contamination is consistent with background levels     b. Contamination is **NOT** consistent with background levels.
6. **Class B-2 RAO:** You **MUST** provide an implemented AUL.
7. **Class B-3 RAO:** You **MUST** provide an implemented AUL and justification that reducing contamination to less than Upper Concentration Limits (UCLs) 15 feet below ground surface is infeasible.
8. **Class C-1 RAO:** You must submit a plan as specified at 310 CMR 40.0861(2)(h). Indicate type of ongoing response actions.  
 a. Active Remedial System     b. Active Remedial Monitoring Program     c. None  
 d. Other    Specify: \_\_\_\_\_
9. **Class C-2 RAO:** You must hold a valid Tier I Permit or Tier II Classification to continue response actions toward a Permanent Solution.

**F. RESPONSE ACTION OUTCOME INFORMATION:**

1. Specify the Risk Characterization Method(s) used to achieve the RAO described above:  
 a. Method 1     b. Method 2     c. Method 3  
 d. Method Not Applicable-Contamination reduced to or consistent with background, or Threat of Release abated
2. Specify all Soil Category(ies) applicable. More than one Soil Category may apply at a Site. Be sure to check off all **APPLICABLE** categories:  
 a. S-1/GW-1     d. S-2/GW-1     g. S-3/GW-1  
 b. S-1/GW-2     e. S-2/GW-2     h. S-3/GW-2  
 c. S-1/GW-3     f. S-2/GW-3     i. S-3/GW-3
3. Specify all Groundwater Category(ies) impacted. A site may impact more than one Groundwater Category. Be sure to check off all **IMPACTED** categories:  
 a. GW-1     b. GW-2     c. GW-3     d. No Groundwater Impacted
4. Specify remediation conducted:  
 a. Check here if soil remediation was conducted.  
 b. Check here if groundwater remediation was conducted.
5. Specify whether the analytical data used to support the Response Action Outcome was generated pursuant to the Department's Compendium of Analytical Methods (CAM) and 310 CMR 40.1056:  
 a. CAM used to support all analytical data.     b. CAM used to support some of the analytical data.  
 c. CAM not used.
6. Check here to certify that the Class A, B or C Response Action Outcome includes a Data Usability Assessment and Data Representativeness Evaluation pursuant to 310 CMR 40.1056.
7. Estimate the number of acres this RAO Statement applies to: **6.399**

**Massachusetts Department of Environmental Protection****Bureau of Waste Site Cleanup****BWSC104****RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Release Tracking Number

3 - 245

Pursuant to 310 CMR 40.1000 (Subpart J)

**G. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1); (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> If Section B indicates that either an **RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion** is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

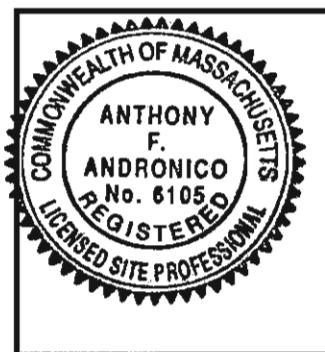
I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: **6105**2. First Name: **ANTHONY F**3. Last Name: **ANDRONICO**4. Telephone: **(617) 328-9229**5. Ext.: 6. FAX: 

7. Signature:

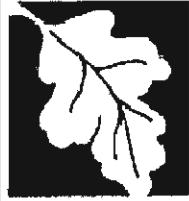
8. Date: **2/28/08**  
mm/dd/yyyy

9. LSP Stamp:

**H. PERSON MAKING SUBMITTAL:**

1. Check all that apply:  a. change in contact name     b. change of address     c. change in the person undertaking response actions

2. Name of Organization: **CJ CROSSTOWN ASSOCIATES LLC**3. Contact First Name: **PETER**    4. Last Name: **CAMERON**5. Street: **150 MT. VERNON STREET SUITE 500**    6. Title: **PROJECT DIRECTOR-CORCORAN JENNIS**7. City/Town: **DORCHESTER**    8. State: **MA**    9. ZIP Code: **02125-0000**10. Telephone: **(617) 822-7371**    11. Ext.:     12. FAX:



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC104**

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

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**I. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON MAKING SUBMITTAL:**

1. RP or PRP     a. Owner     b. Operator     c. Generator     d. Transporter  
 e. Other RP or PRP    Specify: **PRP TIER 2 TRANSFEREE**
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Making Submittal    Specify Relationship: \_\_\_\_\_

**J. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of an RAO Statement that relies on the public way/rail right-of-way exemption from the requirements of an AUL.
3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of a RAO Statement with instructions on how to obtain a full copy of the report.
4. Check here to certify that documentation is attached specifying the location of the Site, or the location and boundaries of the Disposal Site subject to this RAO Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for both the portion subject to this submittal and, to the extent defined, the entire Disposal Site.
5. Check here to certify that, pursuant to 310 CMR 40.1406, notice was provided to the owner(s) of each property within the disposal site boundaries, or notice was not required because the disposal site boundaries are limited to property owned by the party conducting response actions. (check all that apply)  
 a. Notice was provided prior to, or concurrent with the submittal of a Phase II Completion Statement to the Department.  
 b. Notice was provided prior to, or concurrent with the submittal of this RAO Statement to the Department.  
 c. Notice not required.    d. Total number of property owners notified, if applicable: **1**
6. Check here if required to submit one or more AULs. You must submit an AUL Transmittal Form (BWSC113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for Class A-3, A-4, B-2, B-3 RAO Statements)  
 a. Notice of Activity and Use Limitation    b. Number of Notices submitted: \_\_\_\_\_  
 c. Grant of Environmental Restriction    d. Number of Grants submitted: \_\_\_\_\_
7. If an RAO Compliance Fee is required for any of the RTNs listed on this transmittal form, check here to certify that an RAO Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.
8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC104**

**RESPONSE ACTION OUTCOME (RAO) STATEMENT**

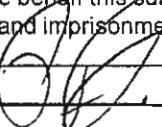
Pursuant to 310 CMR 40.1000 (Subpart J)

Release Tracking Number

**3 - 245**

**K. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

1. I, **PETER CAMERON**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By:  3. Title: **PROJECT DIRECTOR-CORCOR**

Signature

4. For: **CJ CROSSTOWN ASSOCIATES LLC** 5. Date: **02/28/2008**  
(Name of person or entity recorded in Section H) mm/dd/yyyy

6. Check here if the address of the person providing certification is different from address recorded in Section H.

7. Street:

8. City/Town:  9. State:  10. ZIP Code:

11. Telephone:  12. Ext.:  13. FAX:

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY):

**Class A-3 Response Action Outcome (RAO) Statement**

Former National Lead Company  
BRA Parcel 200  
Crosstown Center Development

March 2008

Prepared for:

CJ Crosstown, LLC  
150 Mount Vernon Street  
Boston, MA 02125

Prepared by:

Gannett Fleming, Inc.  
199 Wells Avenue  
Suite 210  
Newton, MA 02459

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- 4-1            DATA QUALITY EVALUATION - SOIL AND GROUNDWATER**

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- APPENDIX A    COPY OF RAM COMPLETION TRANSMITTAL FORM (BWSC-104)**
- APPENDIX B    SURFACE SOIL SAMPLING ANALYTICAL RESULTS**
- APPENDIX C    UPDATED PHASE II CSA RISK ASSESSMENT TABLES 3-1 THROUGH 3-11**
- APPENDIX D    COPY OF AUL AND ASSOCIATED NOTICES**
- APPENDIX E    COPY OF INFORMATIONAL NOTICE TO PROPERTY OWNERS (BWSC-122)**

## 1.0 Introduction

This report presents a Class A-3 Response Action Outcome (RAO) Statement prepared for the Former National Lead Company, BRA Parcel 200/Crosstown Center Development (the "Site") located along Massachusetts Avenue between Albany Street and Melnea Cass Boulevard in Roxbury, Suffolk County, Massachusetts. The Massachusetts Department of Environmental Protection (MassDEP) has assigned Release Tracking Number (RTN) 3-0245 to this Site and the current tier classification status is Tier II. A Class C-2 RAO was filed for the Site in January 2007. This RAO Statement was prepared pursuant to the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000.

Preparation of this document and accompanying RAO Statement Transmittal Form (BWSC-104 – Appendix A) by Gannett Fleming, Inc. (GF) was authorized by CJ Crosstown, LLC. A copy of this report has been submitted to the MassDEP Northeast Regional Office.

## 2.0 Property and Disposal Site Description

### 2.1 *Site Description*

The Site is located in Roxbury, Suffolk County, Massachusetts and is identified as Parcel 200 at the City of Boston Assessor's Office. The Site is bordered by public right-of-ways: Albany Street (northern boundary), Massachusetts Avenue (eastern boundary), Melnea Cass Boulevard (southern boundary), and Hampden Street (western boundary). The Boston Medical Center facility is to the north/northeast beyond Massachusetts Avenue. A Boston Edison Company electrical substation is located along the western most boundary of the Site at the corner of Albany Street and New Hampden Street. The Site is located in a mixed industrial and commercial area, approximately  $\frac{1}{2}$  mile west of highway Interstate 93. An area locus map showing the location of the Site is included as Figure 2-1.

The Site occupies approximately 6 acres and has been under active construction for the Crosstown Center Development (Crosstown) since the fall of 2002. Prior to redevelopment, the western/central portion of the Site included a one-story brick office building, which was formerly occupied by Digital Equipment Corp (DEC), and the eastern/northeastern undeveloped portion of the Site was previously known as EDIC Parcel 4, 800 Albany Street. The building was demolished as part of the redevelopment of the Site.

Prior to the start of Crosstown development, the site consisted of the one-story brick structure (mentioned above), paved parking lots, landscaped areas along the western portion of the Site, a grass covered area along the eastern/northeastern portion of the Site, a bituminous concrete emergency helicopter landing pad within the eastern portion of the

Site, and a basketball court along the southern portion of the Site. A historical site plan showing the approximate property boundaries, former DEC building and other former site features is included as Figure 2-2. A utility plan showing the location of utilities at the Site prior to the start of construction is presented as Figure 2-3.

The redevelopment of this Site has three construction phases. Phase I development, which began in 2002 and is complete, included the demolition of the former DEC building and the construction of a hotel, parking garage, roadway through the Site, and the Harbor Trail that provides a pedestrian link between Roxbury and the Boston Harbor. Phase II construction activities were underway as of January 2006, and included the development of the Crosstown Center Office building and the Crosstown Center Parking Garage Phase II. The scope and schedule of Phase III development have yet to be determined. Figure 2-4 represents the site plan for the development of Crosstown.

## **2.2           *Site History***

The Site was part of an intertidal salt marsh until being filled prior to 1897. An 1897 Sanborn Map of the Site depicts the Roxbury Channel immediately across Massachusetts Avenue as does a 1900 USGS Topographic Map of Boston and Environs. The salt marsh was filled from multiple unknown sources.

Historically, several lead manufacturing companies and gasoline stations have occupied the Site. According to information included in the July 2000 Phase I Environmental Site Assessment prepared by Haley & Aldrich, the Crosstown Center Property was occupied by a variety of lead manufacturers from the mid-to-late 1800s through the 1960s and several gasoline stations from the late 1930s up to 1979. A Site Plan showing the 1978 site features, including the location of the former Mobil Station, is included as Figure 2-2. The National Lead Company of Massachusetts, Boston Lead Manufacturing Co. and Chadwick-Boston Lead Company all conducted operations at the Site. These companies were primarily paint pigment manufacturers, however, plumbing equipment suppliers and other industries have also occupied the Site.

To try to gain further historical information on the Site and surrounding area, GF reviewed Sanborn Maps at the Boston Public Library. Sanborn Maps for the years 1897, 1914, 1937 and 1990 were reviewed, and included as attachments to the Phase II Comprehensive Site Assessment (CSA). The 1897, 1914 and 1937 maps indicate that Hampden, Island, Reading and Southampton (formerly Swett) Streets intersected the Site at these dates.

The 1897 map indicates that the Boston Lead Manufacturing Co., consisting of four main structures, occupied the area along the northeast intersection of the former Island and Hampden Streets. The 1897 map also shows that the J.E. Adams & Company Wood Yard and Cold Blast Water Still Company occupied the area to the southwest of the Massachusetts Avenue and Albany Street intersection and the P.J. Campbell & Sons Stone Yard occupied the area to the southwest of the former Reading and Swett Streets intersection.

The 1914 map shows that a sheet metal and wood working shop, a wagon shed, office, and stone cutting shop occupied the area to the southwest of the Massachusetts Avenue and Albany Street intersection and the P.J. Campbell & Sons Stone Yard occupied the area to the southwest of the former Reading and Southampton Streets intersection.

The 1937 map indicates that the National Lead Company of Massachusetts, consisting of four main structures, occupied the area to the northeast of the former Island and Hampden Streets intersection. An auto body shop, two auto repair shops, and two filling stations occupied the area southwest of the Albany Street and Massachusetts Avenue intersection. The area southeast of the former Southampton and Reading Streets intersection was occupied by an auto body shop.

A 1990 Sanborn map includes the former DEC building previously located in the western/central portion of the Site. Plumbing equipment suppliers and other industries have also occupied the Site; however, it appears that the property usage of the lead manufacturers, mixed unknown fill and the gasoline stations are the most likely sources of the releases that have occurred at the Site.

The disposal site is defined as the area impacted by the release of contaminants and downgradient locations where the contaminants have come to be located, and is discussed further in section 5.0.

### **3.0 Summary of MCP Response Actions**

Below is a chronology of MCP submittals and response actions relating to the Site. Summaries of each of the prior submittals listed below were provided in the August 2006 Phase II CSA and/or the January 2007 Class C RAO Statement and are not reproduced herein.

#### **Chronology of MCP Documents / Activities**

<b>Date</b>	<b>Disposal Site History / Documents Submitted (consultant)</b>
March 1989	Phase I Limited Site Investigation for the DEC building and the EDIC Parcel 4 (Goldberg Zoino & Associates, Inc.)
April 1989	Waiver Application for EDIC Parcel 4
October 15, 1989	MassDEP assigns RTN 3-0245 to the EDIC Parcel 4 (eastern portion of Site, approximately 2 acres).
October 1991	Phase II CSA for EDIC Parcel 4 [Weston & Sampson Engineering, Inc. (Weston & Sampson)]
April 1992	Phase III (Weston & Sampson)
January 1995	Tier II Extension on behalf of EDIC (Weston & Sampson)
July 1996	Tier II Extension on behalf of EDIC (Weston & Sampson)
November 14, 2000	Tier II Extension, redefined disposal site to include entire BRA Parcel 200- approximately 6 acres – both DEC building and EDIC Parcel 4 (GF)

April 2001	Phase II Scope of Work, Site Health and Safety Plan (GF)
August 2001	Interim Draft Phase II CSA (GF)
June 2002	Tier II Extension and Tier II Transfer on behalf of CJ Crosstown LLC (GF)
August 2002	Focused Feasibility and RAM Plan (GF)
September 2002	RAM Plan Addendum (GF)
September 2002 through Current	RAM activities begin including hot spot remediation under the direction of GF
November 2002	RAM Plan Modification (GF)
January 2003	RAM Status Report (GF)
July 2003	RAM Status Report (GF)
August 2003	Tier II Extension - CJ Crosstown LLC (GF)
January 2004	RAM Status Report (GF)
June 2004	RAM Status Report (GF)
July 2004	Tier II Extension - CJ Crosstown LLC (GF)
December 2004	RAM Status Report (GF)
April 4, 2005	MassDEP issued a Notice of Noncompliance, NON-NE-05-3R004, citing missed MCP deadlines for submittal of the Phase II, III and IV reports and the RAO Statement
April 14, 2005	Response letter to DEP regarding Notice of Non Compliance (GF)
May 19, 2005	MassDEP issued an Administrative Consent Order #ACO-05-3R001
May 2005	RAM Summary (GF)
June 2005	RAM Status Report (GF)
July 2005	Tier II Extension – CJ Crosstown, LLC (GF)
November 1, 2005	Administrative Consent Order, Former National Lead Site , Roxbury : RTN 3-0245; ACO-NE-05-3R001-Amended
November 7, 2005	Response to DEP regarding ACO Amendment
December 2005	RAM Status Report (GF)
March 2006	IRA Completion Report (GF)
June 2006	RAM Status Report (GF)
June 2006	Tier II Extension – CJ Crosstown, LLC (GF)
August 2006	Phase II Comprehensive Site Assessment and Phase III Evaluation and Selection of Remedial Action Alternatives (GF)
December 2006	Technical Justification to forego submittal of Phase IV (GF)
December 2006	RAM Status Report (GF)
January 2007	Class C-2 Response Action Outcome Statement (GF)
June 2007	RAM Status Report (GF)
June 2007	Tier II Extension – CJ Crosstown, LLC (GF)
December 2007	RAM Completion Report (GF)
February 2008	Activity and Use Limitation

### ***3.1 Notice of Noncompliance and Administrative Consent Order***

On April 4, 2005, MassDEP issued a Notice of Noncompliance (NON) #NON-NE-05-3R004 citing missed MCP deadlines for submittal of the Phase II, III and IV reports and the RAO Statement. In addition, interim deadlines were established for the removal of the existing excess soil stockpile at the Site. Due to the volume of the stockpile, and the associated cost for treatment and removal, an extension to the interim deadline was requested. Upon review of the request to extend the deadlines, MassDEP issued an Administrative Consent Order (ACO) #ACO-05-3R001 in May 2005, which established interim deadlines for completing MCP response actions, and established stipulated penalties if those deadlines were missed. An amended ACO which extended the deadline was issued in November 2005. The deadlines established in the amended ACO were as follows:

July 1, 2006 - Removal of Phase I excess stockpile - 21,140.58 tons  
Sept. 1, 2006 - Submittal of Phase II and III Reports.  
Jan. 1, 2007 - Submittal of Phase IV Plan.  
July 1, 2007 - Submittal of RAO Statement.

Removal of the Phase I Construction Area excess soil stockpile was completed in February 2006 under the Release Abatement Measure (RAM), as discussed further in section 3.2. The Phase II and III reports were completed in August 2006, and are discussed further in Section 3.3, and a technical justification to forego submittal of a Phase IV plan was completed in December 2006 and is discussed in section 3.4.

### ***3.2 Release Abatement Measure***

The RAM was filed in 2001 prior to site redevelopment activity, and has enabled site remediation to occur in conjunction with the site redevelopment work. Under the RAM, as well as an Immediate Response Action to address removal of an abandoned underground storage tank (UST), the following activities occurred:

- Removal of over 4,000 tons of soil impacted by high concentrations of lead. Removal of this soil was required to eliminate hot spots prior to site construction.
- Removal of 10 abandoned USTs at the site, along with associated petroleum impacted soil.
- Removal of over 31,000 tons of excess soils, which contained elevated concentrations of lead. Although removal of this excess soil was not required to meet risk-based standards, removal (and proper off-site disposal/recycling) was necessary to facilitate construction.

Based on the site characterization sampling performed following the removal of excess soils, as presented in the Phase II CSA, no further soil removal was necessary at the site to achieve a condition of no significant risk. However, additional soil removal was performed as part of site construction, and therefore the RAM remained open until December 2007 to provide appropriate controls during the conduct of on-going site construction work, which involved the handling of soils.

The risk assessment included in the Phase II CSA included laboratory analytical data through February 2006. Since that time, the following activities have occurred at the site, which have changed site conditions. However, as discussed below, the Phase II CSA risk assessment remains valid for the reasons indicated:

- Five monitoring wells sampled in February 2006 were destroyed. In order to confirm the site groundwater conditions and verify the result of the Phase II, three replacement wells were installed and sampled in October 2006 (as reported in the December 2006 RAM Status report). The groundwater analytical data confirmed the previous sampling results, and all detected compounds were within MCP Method 1 risk assessment standards in the October 2006 sampling event.
- Excavation and off-site disposal of approximately 5,000 cubic yards of soil impacted by lead and/or petroleum hydrocarbons. Although removal of this impacted soil has changed site conditions since February 2006, the net effect has been to remove contaminated media and reduce the overall exposure potential and associated risks at the site.
- Excavation and on-site re-use of approximately 6,000 cubic yards of soil during Phase II construction activities. Characterization sampling of these soils (prior to re-use) were consistent with the soil sampling results presented in the Phase II CSA risk assessment. Generation of excess soil from Phase II construction was concluded as of September 2006.
- On-site re-use of an additional 750 ton soil stockpile (approximately 500 cubic yards) was also performed following the submittal of the Class C RAO [*Note: this quantity was inadvertently omitted from the on-site re-use quantity reported in the December 2007 RAM Completion Statement*]. Final surface soil sampling was performed in the active construction areas (Phase II and Phase III development areas) to confirm final Site conditions at the conclusion of the RAM, as reported in the RAM Completion Report. Figure 3-1 depicts the surface sampling locations, and Table 3-0 shows the results of the surface soil sampling. Surface soil sampling analytical results are provided as Appendix B. Based on those results, the post-construction surface soil data are consistent with the exposure point concentrations used in the risk assessment; therefore the conclusions of the risk assessment are still valid.

The RAM remained open until all soil handling activities associated with Phase II of construction was completed in December of 2007.

### **3.3        *Phase II CSA and Phase III Feasibility Study***

The Phase II CSA and Phase III Evaluation and Selection of Remedial Action Alternatives were filed in August 2006. Significant findings from the Phase II CSA regarding the nature and extent of contamination, and regarding the Method 3 risk assessment are summarized below in Sections 5.0 and 6.0, respectively. The Phase III Evaluation and Selection of Remedial Action Alternatives concluded that no further remediation was necessary because a condition of no significant risk had already been achieved, pending filing of an Activity and Use Limitation (AUL) at the site. The Phase III further concluded that additional remediation to achieve or approach background was not feasible.

### **3.4        *Technical Justification to Forego Phase IV Plan***

Based on the conclusions of the Phase II and Phase III, GF prepared a December 2006 Technical Justification under the MCP, indicating that no Phase IV Remedy Implementation Plan was necessary at the site, because a condition of no significant risk had been achieved and the required remediation at the site was completed under the on-going RAM at the site.

Upon receipt of the Technical Justification, MassDEP indicated that, based on the conclusions of the Phase III, a Class C RAO should have been filed prior to the January 1, 2007 Phase IV deadline to obviate the need to file Phase IV. Based on discussions between Karen Stromberg of MassDEP and Anthony Andronico, LSP, it was agreed that the Class C RAO would be filed in January 2007. The Class C RAO would adequately address the Phase IV submittal requirement and the RAO would also satisfy the July 1, 2007 RAO deadline. The RAM would remain open until soil handling/construction work was completed. Following closure of the RAM, and following the recording of the AUL, a Class A-3 RAO would then be filed.

## **4.0 Data Usability and Representativeness**

In the Phase II CSA, data tables were prepared and presented in Tables 3-1 through 3-11. Copies of these tables are provided in Appendix C, updated to include October 2006 groundwater analysis results. Data generated prior to 2001 were not used in the risk assessment, and are not summarized in Tables 3-1 through 3-11. In addition, waste characterization samples and data from soils that were removed from the Site are also not included as they no longer represent current Site conditions.

Per 310 CMR 40.1056 of the MCP, all Class A, B, or C RAOs require a Data Usability Assessment documenting that that data relied upon is scientifically valid and defensible, and provides a sufficient level of precision, accuracy, and completeness to support the RAO. A Representativeness Evaluation, documenting the adequacy of the spatial and temporal data sets used to support the RAO, must also be provided.

The rigorousness of the Analytical Data Usability Assessment and the Representativeness Evaluation should be proportional to the complexity of the project and the ramifications associated with an incorrect decision. The complexity of this Site is considered to be moderate for the following reasons:

- The disposal site is the Former National Lead Company, and remediation has occurred during Site redevelopment. Future use of the property (upon completion of redevelopment) is not anticipated to change. Risks during redevelopment work will be managed through Release Abatement Measure Plans.
- The oil and/or hazardous material released at this Site were identified via laboratory methods as metals (primarily lead), petroleum hydrocarbons, and polycyclic aromatic hydrocarbons (PAHs).
- The sources of the release were identified as primarily the former lead facility operations, historical gasoline stations and fill materials. Each of these sources has been eliminated or controlled.
- The media impacted was limited to the upper 8 to 12 feet of soil and overburden groundwater.
- The geology/hydrogeology of the Site is not complex.
- The area impacted was limited to the Site property and surrounding public ways.
- The Site groundwater is not classified as GW-1.
- No Substantial Release Migration or Imminent Hazards have been identified at the Site.
- The closest environmental receptor is the Fort Point Channel, located approximately 5,000 feet northeast of the site.

Due to the limited exposure potential at the Site and the associated administrative control (the AUL) applied at the Site, the ramifications of an incorrect decision are regarded as low. The highest exposure potential would occur during active redevelopment. Construction at the Harbor Trail and Phase I areas have been completed. Construction of Phase II is substantially complete, with soil handling activities concluded and with exposure potentials monitored via the RAM. Future redevelopment of Phase III is likely, and will also require a RAM per the AUL; thus exposures in that portion of the Site will also be controlled.

#### **4.1       Analytical Data Usability Assessment**

The Analytical Data Usability Assessment is a systematic evaluation of the uncertainty associated with analytical data points in terms of their accuracy and precision conducted pursuant to 310 CMR 40.1056(2)(k). It determines whether an individual analytical data point is indicative of the location sampled and establishes or qualifies to what extent the analytical data for that sampling data point meet applicable data quality objectives, and are suitable to be used in a Representativeness Evaluation.

Soil samples were collected at the site as early as 1989, with a significant sampling effort under the Phase II CSA completed in 2001 and 2002. As a result, a significant portion of the data is considered to be "pre-Cam". Pre-C means that the data was generated prior to August 1, 2003 when MassDEP adopted the Compendium of Analytical Methods (CAM)

for the collection analysis and reporting of analytical data. All of the Phase I soil data is pre-CAM, as soil remediation there was completed prior to August 1, 2003. Most of the Harbor Trail and Phase III development area soil data is also pre-CAM, with some limited CAM compliant data generated. Most of the Phase II construction area soil data is CAM compliant, with some limited historic pre-CAM data. The post construction surface soil data generated in November 2007 is CAM compliant, and these results are consistent with the earlier data used in the August 2006 risk assessment. The level of accuracy and precision is regarded as moderate to high for the following reasons:

- No significant discrepancies were identified between the pre-CAM and the CAM compliant data sets.
- Soil sample collection was based on MassDEP guidance documents.
- No issues with sample containers, preservation, holding times, or sample preservation that would affect the outcome of the investigation were noted.
- Analytical methods for soil samples included Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons (VPHs/EPHs) via the MassDEP method; and Volatile Organic Carbons (VOCs) via method 8260/8021, Total Polychlorinated Biphenyls (PCBs), Semi-Volatile Organic Compounds (SVOCs) via method 8270, and Resource Conservation and Recovery Act (RCRA) metals by methods developed by the US Environmental Protection Agency (EPA).
- A Massachusetts certified laboratory performed the analysis.
- Analytical results are consistent with photoionization detector (PID) readings and other field parameters, including X-ray fluorescence(XRF) field screening data for lead.
- In most cases, quality assurance/quality control (QA/QC) data was reported with the analytical results, including a case narrative to address any data quality issues.

Groundwater samples were collected at the site between 2001 and October 2006. The risk assessment used only the February 2006 data, which was CAM compliant. The results of the older groundwater analysis were pre-CAM, but were generally consistent with the February 2006 data. The October 2006 groundwater data was also CAM compliant, and although not included in the quantitative risk assessment, this data set was also consistent with the February 2006 results. Therefore, the level of accuracy and precision of the groundwater data is regarded as high.

The soil gas data was pre-CAM, however, based on a comparison of the measured soil gas data to the modeled results (based on soil and groundwater concentrations), the results were consistent with expected values. Therefore the level of accuracy and precision of the soil gas data are considered moderate.

The Analytical Data Usability Assessment has determined that the soil, groundwater and soil gas analytical results are indicative of the locations sampled. The level of accuracy and precision is regarded as moderate to high and meets the applicable data quality objectives, and are suitable to be used in a Representativeness Evaluation.

#### **4.2      Representativeness Evaluation**

The Representativeness Evaluation is a comprehensive evaluation of the adequacy of spatial and temporal data set in representing disposal site conditions and supporting environmental decision-making. The spatial data includes historical use, hydrogeologic and physical characteristics and similar data in addition to analytical data. This evaluation must consider the full range of data gathered over the course of the response action process including the site history, conceptual site model, analytical, hydrogeological, physical data, and field observations.

Table 4-1 presents a summary of the numbers of samples used to represent conditions in each exposure unit at the Site (for soil) and for Site-wide soil and groundwater. Based on the number of samples collected, conceptual Site model, and observed conditions during assessment and remediation, the usable data at the Site is concluded to be adequate to support the risk assessment and associated decisions regarding Site closure. An additional 20 post construction surface soil samples were collected and the results showed good correlation with the data set used in the August 2006 risk assessment.

### **5.0 Nature and Extent of Contamination**

The discussion on the nature and extent of contamination has been divided into a discussion of the known or suspected contamination sources, followed by a discussion of the nature and extent of contamination found in soil, groundwater, and soil gas. Figure 5-1 depicts the estimated extent of contamination at the site, as discussed herein.

The analytical summary tables for groundwater, soil and soil-gas sampling are presented in Tables 3-1 through 3-11 (Appendix C). Post construction surface soil data collected in November 2007 is also summarized in Table 3-0. Results are compared to MCP Method 1 category S-1 standards for discussion purposes; however conclusions regarding risk are based upon the Method 3 risk assessment. Based on results from these investigations, soil and groundwater have been impacted by metals, petroleum hydrocarbons, and PAHs. Trace concentrations of phthalates and PCBs have also been detected at the site; however, based on the low concentrations and very low frequency of detection, these compounds are not considered contaminants of concern for the site.

#### **5.1      Known or Suspected Sources of Contamination**

The historical site operations suggest the presence of four general sources of contamination on the property. Each is described in more detail below.

##### **5.1.1      Former Boston Lead Facility**

The footprints of the former Boston Lead Manufacturing Company property and buildings are depicted on Figure 2-2. Historical lead manufacturing operations from the late 1800s through the 1960s are the likely source for the high levels of lead detected at the site. As reported in the Phase II CSA, the lead hot spots removed from the site were found in locations within the facility that were located on the facility grounds outside of the original facility buildings, and outside the newer DEC building footprint. This pattern of contamination indicates that historical operations resulted in the contamination

of exposed areas of the facility yard. Redevelopment in the 1980's during construction of the DEC building likely resulted in the excavation and removal or relocation of lead contaminated soils. The highest levels of lead contamination in this area were generally located within the depth range of 4 to 8 feet. The pattern of lead contamination indicates that the extent from this source is relatively well defined and bounded by the locations of the former streets surrounding the facility: Southampton St. to the north, Island St. to the south, Reading St. to the east, and Hampden St. to the west. The contaminant types, depths and concentrations from locations outside these boundaries suggest separate sources of contamination, as discussed further in the following 3 subsections.

#### **5.1.2            *Gasoline Stations***

As shown on Figure 2-2, at least 3 gasoline stations were located on the Crosstown property within the triangular area bounded by Albany St. to the northwest, Massachusetts Avenue to the northeast, and former Southampton St. to the south. Several USTs were encountered in this area and removed during the redevelopment of this site. The historical gasoline station activities and USTs are likely sources of petroleum compounds, including some PAHs, and lower levels of lead. Historical operations which may also be contributing sources of detected contamination include paint spraying and auto body repair, automobile repair, tire service and recapping.

#### **5.1.3            *Other Historical Operations***

As shown on Figure 2-2, historical operations performed within the Crosstown property boundaries in the triangular area bounded by former Island St. to the west, former Southampton St. to the north and Melnea Cass Boulevard to the southeast have included junk storage, paint spraying, welding and auto body repair. These operations are also likely contributing sources for contaminants detected in this area.

#### **5.1.4            *Fill Materials***

The former streets located within the property boundaries were eventually removed and/or re-located, during which time fill from unknown sources was deposited on the property. Deeper layers of materials from earlier filling were also deposited on the site to fill the extension of Fort Point Channel, which formerly extended to this area. Within the former Boston Lead facility boundaries, the fact that the highest levels of lead contamination were found at 4 – 8 feet suggests that the upper four feet of materials were deposited some time after the Boston Lead facility ceased operations. Fill material is expected to contain elevated levels of PAHs and metals.

### **5.2               *Soil***

The contaminants of concern for the site fall into three main categories: metals (primarily lead); petroleum hydrocarbons which includes VPHs, EPHs, and Total Petroleum Hydrocarbons (TPHs); and PAHs. These compounds are discussed in the following sections. A few other organic compounds which do not fall within these categories were detected (e.g. phthalates, PCBs, carbazole, dibenzofuran and methyl phenol). However, these other contaminants were detected at very low frequency and at low concentrations. No specific sources for these compounds were identified and they appear to be very limited in extent; therefore these compounds are not discussed further.

There appears to be a confining layer of natural silty/sandy clay below an upper layer of fill material. The confining layer is the approximate vertical boundary of contamination (generally at a depth of 8 feet), and this layer appears to prevent the vertical migration of contaminants in soil and groundwater. The horizontal extent of the contamination extends over the majority of the property, and is discussed in more detail in the following subsections. Hot spots of contamination were removed to levels below Upper Concentration Limits (UCLs) [6,000 parts per million (ppm) lead at the time of remediation]; two individual sample locations exceed 6,000 ppm and another 11 samples exceed 3,000 ppm (the current UCL for lead)], however the average concentrations at all locations are well below UCLs.

Within the fill layer there are various concentrations of contaminants that exceed Method 1 category S-1 standards. Summary statistics (frequency of detection, maximum, minimum and average compound concentrations) for the compounds detected in soil are presented in the risk assessment in the Phase II CSA, broken down into exposure units. Analytical results for soils that have been removed from the site (e.g. hot spot soils and excess soils from construction) are not included in the tables, in order to provide a more succinct presentation of post remediation and post construction conditions. At the time of the risk assessment (August 2006) construction in the Phase 2 development area was still underway; thus, further excavation and soil handling/relocation occurred. Once the soil handling activities for Phase 2 development were completed (November 2007), confirmatory samples were collected, and the results of that sampling are summarized in Table 3-0.

#### 5.2.1 Lead and Other Metals

Lead in soil has been one of the major driving forces for remediation at the Site. As discussed in the Phase II CSA, hot spot remediation was successfully accomplished in 2002 and 2003 under the RAM Plan and RAM Plan Modification. As shown in the risk assessment, average soil concentrations of lead are as follows:

#### Lead Data Summary

Location:	Harbor Trail	Phase 1 Area	Phase 2 Area	Phase 3 Area	Phase 2 & 3 Area - Post Construction
Average All soils (0 – 15 ft)	867	1,260	918	895	N/A
Maximum All Soils (0-15 ft)	4,900	15,100 <sup>1</sup>	9,900 <sup>2</sup>	5,340	N/A
Average Surface soils (0-3 ft)	920	1,180	991	572	525
Maximum Surface soils (0-3ft)	3,360	4,900	9,900 <sup>2</sup>	1,250	1,800

Concentrations in mg/kg (ppm)

N/A = not applicable. Post construction sampling was limited to surface soils.

Notes:

1. The result of 15,100 from boring SB-1 at 4'-8' could not be replicated in re-sampling (boring SB-133 result was 5,160). Next highest measurement was 4,900.
2. Soil was excavated and managed during Phase 2 construction (sample PPG-7, 0'-5'). Next highest measurement was 4,430.

As discussed above in section 5.1, the likely source of the highest lead contamination is the historical lead manufacturing operations. Other sources for lower levels of lead include gasoline and automobile repair operations, paint spraying, junk storage and fill materials containing coal ash or wood ash. Prior to remediation, lead concentrations as high as 69,900 ppm were detected on site. Following hot spot removal, the average lead concentrations of remaining soils were within the risk based target levels of 1,300 ppm established for this project at the time of remediation. The highest levels of lead contamination were found at locations within the former lead manufacturing facility boundaries. In locations directly beneath the former DEC building, relatively lower levels of lead were found, indicating that removal and re-working of soils likely occurred beneath the DEC building at the time of construction.

In general, lead concentrations for samples collected at the perimeter of the property were within the background levels for fill soils. MassDEP's published value for background levels of soils containing coal ash or wood ash is 600 ppm. This concentration equates to the 90<sup>th</sup> percentile value of lead from the supporting studies listed in the May 23, 2002 *Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soils*. The 95<sup>th</sup> percentile value from those studies is 1,100 ppm and the maximum is 11,000 ppm. Although several of the samples near the site perimeter were above 600 ppm lead, attempts to delineate lead-containing soils beyond the property boundary down to 600 ppm or lower were not practicable for the following reasons:

- The pattern of contaminant distribution and historical release mechanisms indicate that the current and/or former Streets approximate the boundaries of the contaminant release areas.
- The construction of Melnea Cass Boulevard occurred long after the site release occurred, and road construction likely resulted in the removal, relocation and/or re-working of the soils, further complicating delineation efforts.
- Fill soils in the site and surrounding area are known to exist and are expected to contain lead concentrations consistent with the levels found in the supporting studies published in the Technical Update.
- Due to the old and industrial nature of the area surrounding the site, and the widespread distribution of fill materials in the area, it would be difficult, if not impossible, to determine the source of moderately elevated lead (e.g. above 600 ppm) and PAH concentrations. Lead at concentrations up to 1,000 ppm beneath the roadways would not pose a significant risk (based on the risk assessment

included herein) and may also be considered background (based on the supporting documentation of the Technical Update).

For these reasons, the extent of lead impacted soils is estimated as the approximate Crosstown property boundary along Albany Street, Massachusetts Avenue and Melenea Cass Boulevard, and the approximate former Boston Lead facility boundaries along former Hampden Street and former Island Street. Figure 5-1 depicts the area impacted by lead.

Other inorganic contaminants detected at levels above background are arsenic, barium, cadmium, chromium, and mercury; however, none of these compounds have been found at levels above the S-2/GW-2 or S-2/GW-3 standards. Detection of these metals did not follow any discernable pattern, and are most likely attributable to fill material deposited on the site.

### 5.2.2 *Petroleum Hydrocarbons*

Petroleum hydrocarbons, consisting of VPHs, VOCs, EPHs, TPHs were found at the site, primarily in the northeast corner of the property in the Phase 2 development area, where the former gasoline stations were located. Several abandoned USTs were removed from this area of the site during redevelopment, and the most heavily petroleum impacted soils were excavated and removed at the time of the UST removals. Although low levels of petroleum hydrocarbons were detected sporadically across the entire site, only soils within the northern triangle of the site (north of former Southampton St.) exhibited soils with petroleum hydrocarbons at levels above S-1 soil standards, with one exception. Soil boring SB-15, located within former Southampton St., exhibited petroleum hydrocarbons slightly above S-1 standards in the 4' to 8' sample.

As shown on Figure 2-2, at least 3 gasoline stations were located on the Crosstown property within the triangular area bounded by Albany St. to the northwest, Massachusetts Avenue to the northeast, and former Southampton St. to the south. Several USTs were encountered in this area and removed during the redevelopment of this site. The historical gasoline station activities and USTs are likely sources of petroleum compounds, including some PAHs, and lower levels of lead. Historical operations which may also be contributing sources of detected contamination include paint spraying and auto body repair, automobile repair, tire service and recapping.

In general, soil contamination from these historical operations is bounded by the current and/ or former streets and is depicted on Figure 5-1.

### 5.2.3 *Polycyclic Aromatic Hydrocarbons (PAHs)*

PAHs are found in several sources, including ash material from incomplete combustion, as well as heavy oil and petroleum products. As fill containing ash material is widespread throughout the site, the presence of low levels of PAHs at numerous locations is not surprising. Most of the PAHs detected were consistent with fill material containing ash. Soils within the Harbor Trail area, Phase 1 development and Phase 3 development areas did not exceed the S-1 standards for soils with limited exceptions (2 samples in the

Harbor Trail area, 1 sample in the Phase 1 area, and 4 samples in the Phase 3 area). Each of the S-1 exceedences were very slight, suggesting that the source of the PAHs is likely fill material, and these detections are concluded to be a background condition. Despite this conclusion, the PAHs were conservatively included in the risk assessment as contaminants of concern. In the Phase 2 development area, significantly higher PAH concentrations were detected, and 10 samples were found with PAHs above S-1 standards. These results are not consistent with background, and suggest that the source of the PAHs found in the Phase 2 soils are attributable to the historical operations as gasoline filling stations and/or automobile repair shops. Therefore the extent of PAH impacted soils is consistent with the extent of petroleum hydrocarbon impacted soils as discussed in section 5.2.2.

### 5.3      *Groundwater*

In June 2001 and September 2002, GF collected groundwater samples from microwells installed in May through June 2001 and from wells installed by others. The first round of samples were analyzed for VOCs by EPA Method 8260B, SVOCs by EPA Method 8270C, VPHs/EPHs by the MassDEP Methods and RCRA 8 total Metals. The details of the first round of sampling are included in the Interim Draft Phase II CSA (August 2001). For the second round of sampling in September 2002, groundwater samples were analyzed for dissolved RCRA 8 Metals and monitoring wells GF-1 and GF-2 were sampled for VPH/EPH by the MassDEP methods. The details of the second round of groundwater sampling were presented in the RAM Plan Modification (November 2002).

In February 2006, Gannett Fleming supervised the installation of 5 additional monitoring wells to characterize post-remediation Site-wide groundwater conditions. Groundwater samples collected in February 2006 were analyzed for dissolved metals, PAHs, petroleum hydrocarbons, and VOCs. The results of the groundwater sampling indicates that groundwater concentrations of Oil and Hazardous Materials (OHM) are below the applicable Method 1 standards with one exception; the GW-2 standard of 1,000 ppm for C9 to C12 aliphatics was slightly exceeded (1,020 ppm) in the groundwater sample from well GFMWCCO-2 located at the northeast corner of the site.

Summary statistics of the groundwater data are presented in the Phase II CSA risk assessment. Due to the fact that soil contamination has been the primary driver for remedial efforts at the site, only limited groundwater sampling has been performed at the site, one round in 2001 (with a follow up in 2002) and more recently in February 2006. To represent the most current conditions, only the February 2006 data was used in the risk assessment. The older metals results were generally consistent with the 2006 data, when the effects of filtering to remove particulates for dissolved metals concentrations are taken into account. The petroleum hydrocarbon concentrations in 2006 were much lower than the concentration found in 2001. This is concluded to be the result of remedial actions and natural degradation, although seasonal variations could account for the change as well.

During Phase II construction, the five wells sampled in February 2006 were destroyed; therefore replacement wells were needed prior to the collection of confirmatory

groundwater samples. GF supervised the installation of three (3) additional monitoring wells (GFMWCCO-4, GFMWCCO-5 and GFMWCCO-6) in October 2006. Analytical data from the replacement wells was used to further evaluate the seasonal trends and potential fluctuations in groundwater conditions in this area. The October 2006 data was generally consistent with the February 2006 data, and confirmed the results of the risk assessment. All compounds detected in October 2006 were within MCP Method 1 risk assessment standards (categories GW-2 and GW-3).

The relatively high metals concentrations reported in the June 2001 samples are concluded to be the result of suspended particulates in the groundwater, and are therefore not representative of dissolved groundwater concentrations. Subsequent groundwater samples were filtered, with the detected metals concentrations much lower as a result.

Low levels of barium and lead were detected in groundwater, at concentrations approaching background. Based on the 2006 sampling, low levels of petroleum compounds are migrating off-site in the direction of groundwater flow to the north; however, based on the most recent groundwater analytical results the concentrations are below MCP GW-2 and GW-3 groundwater standards. The extent of off-site impact (concentrations approaching background – estimated as  $\frac{1}{2}$  the Method 1 Standards) were estimated via modeling, and is reflected graphically on Figure 5-1.

#### 5.4 Soil Gas

A total of ten soil gas points were installed on August 27 and 28, 2002 and soil gas samples were collected along the northwest corner of the Site as well as off-site along the intersection of Massachusetts Avenue and Albany Street. Eight of the ten sampling locations were selected for SUMMA canister sampling based on the field screening results and were submitted to a certified laboratory for the analysis of MassDEP Air Petroleum Hydrocarbons (APHs). The soil gas sample locations are reported in the Phase II CSA and Table 3-11 (Appendix C) summarizes the soil gas analytical data. Details of the soil gas investigation and copies of soil gas analytical data were included as part of the RAM Modification (November 2002). The soil gas data provides an indication of the extent of migration from impacted soil or groundwater into soil gas and subsequently indoor air. The soil gas data is used in the risk assessment to evaluate indoor air risks. The soil gas data was also used in the delineation of the extent of petroleum hydrocarbon contamination, as shown on Figure 5-1.

## 6.0 Risk Assessment

A Method 3 risk characterization was prepared for the site, and is presented in its entirety (including appendices) in the Phase II CSA. The risk characterization concludes that no significant risk is posed by the site to human health, safety, public welfare or the environment. This conclusion assumes that an AUL will be filed which precludes the use of the site as a residence. The risk characterization was based on data generated as of February 2006. Additional site work and re-development of the Phase II development area were in progress at the time of the August 2006 risk assessment and the January 2007 Class C RAO Statement; therefore confirmatory soil sampling was performed in

November 2007, following the conclusion of soil handling activities associated with Phase II construction. As discussed in section 5.2.1, the post construction surface soil sampling data was consistent (or showed lower average concentrations) with the data sets used in the risk assessment; therefore, there has been no increase in the exposure point concentrations that were used in the August 2006 risk assessment, and the conclusions from that assessment are still valid. As concluded in the August 2006 risk assessment, the Site poses no significant risk to human health, safety, public welfare or the environment, as defined in the MCP.

For portions of the site that lie beneath a public way (Melnea Cass Boulevard, Albany Street and Massachusetts Avenue), no AUL is required per 310 CMR 40.1012(3)(c). Notices to the public agencies owning and operating public way, required per 310 CMR 40.1403(8), were provided concurrent with the filing of the Class C-2 RAO Statement (January 2007).

## **7.0 Activity and Use Limitation**

An AUL for this Site was recorded with at the Suffolk County Registry of Deeds on February 14, 2008. A copy of the recorded AUL is attached as Appendix D. As specified in the AUL, activities and uses which are inconsistent with the objectives of the AUL, and which, if implemented at the Property may result in a significant risk of harm to human health, safety, or public welfare, are as follows:

- 1) Use of the area defined as the Property as a residence or for growing fruits or vegetables for human consumption.
- 2) Activities at the Property which would likely result in direct contact, disturbance or relocation of, the contaminated subsurface soils (depths greater than 3 feet below ground surface), unless such activity strictly involves limited, short-term utility or construction work conducted in accordance with the performance standards from Utility Related Abatement Measures (URAM) set forth in 310 CMR 40.0460. In addition, the URAM must include Soil Management procedures pursuant to 310 CMR 40.0030, and/or all applicable workers Health and Safety practices must protect any utility worker and/or construction worker and the general public with regard to site specific chemicals of concern and exposure pathways.
- 3) Construction of buildings, building additions, or other work, specifically within the Property which may cause disturbance of subsurface soils (depths greater than 3 feet below ground surface), unless such activity is conducted in accordance with performance standards for a Release Abatement Measure (RAM) as set forth in 310 CMR 40.0440. In addition, the RAM must include Soil Management procedures pursuant to 310 CMR 40.0030, and/or all applicable workers Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any construction worker and the general public with regard to site specific chemicals of concern and exposure pathways.

Also attached in Appendix D are the following documents:

- copies of the legal notice filed in the Boston Herald
- cover letters transmitting copies of the AUL to the City of Boston Chief Municipal Officer, Board of Health, Building Code Enforcement Official and Zoning Official
- completed form BWSC-113, under which a certified copy of the AUL was provided to the MassDEP Northeast Regional Office.

## 8.0 Feasibility of Achieving or Approaching Background

The feasibility of achieving or approaching background was addressed in the August 2006 Phase III Identification, Evaluation and Selection of Remedial Action Alternatives for the Site. The conclusions of the Phase III were as follows:

*"As summarized in the Phase II CSA, significant site remediation has occurred on site in accordance with a RAM Plan filed in 2001, prior to the start of site redevelopment. In conjunction with the RAM Plan, a Focused Feasibility Evaluation was performed, and appropriate remedial action alternatives were evaluated in that document. The subsequent remedial actions were completed, in the form of underground storage tank removals and the excavation, treatment and disposal and/or recycling of significant quantities of soils impacted with site-related contaminants of concern. As documented in the Phase II CSA, the remedial actions implemented under the RAM were successful in achieving a condition of no significant risk. This finding assumes and requires that an Activity and Use Limitation be implemented at the site, as contemplated in the Focused Feasibility Evaluation."*

*The purpose of this Phase III evaluation was to update the Focused Feasibility Evaluation, and to complete a Phase III which meets the requirements of section 310 CMR 40.0850 of the MCP. As a condition of no significant risk has been achieved (pending filing of the AUL), this Phase III has been limited to addressing the feasibility of achieving background, according to the procedures set forth in the MassDEP Policy #WSC-40-160. Per that policy, a condition of categorical feasibility does not exist, because there is not less than 20 cubic yards of soil impacted by petroleum compounds at the site. In addition, it is considered categorically infeasible to achieve or approach background at the site because the petroleum hydrocarbons are non-persistent (degradable) compounds, and the lead and PAHs are persistent compounds present only in category S-2 and S-3 soils (pending submittal of the AUL)."*

## 9.0 LSP Opinion and RAO Completion Statement

The Licensed Site Professional Opinion certification is provided in Section I of BWSC-104, which is an integral part of this report. It is the opinion of Anthony F. Andronico, LSP #6105, that the requisite conditions for the attainment of a Class A-3 RAO have

been met. This report, and the documentation and previous work referenced herein, form the basis for this opinion.

## **10.0 Public Involvement**

Public notification requirements stipulated in the MCP apply as follows:

- Per 310 CMR 40.1403(3)(f), the Chief Municipal Officer and Board of Health must be notified of the availability of the RAO Statement;
- Per 310 CMR 40.1406, notice must be provided to the owners of property within the boundaries of a disposal site (specifically owners of Melnea Cass Boulevard, Albany Street and Massachusetts Avenue).

Copies of pertinent public correspondence to address these requirements are included in Appendix E.

Notice was also required per 310 CMR 40.1403(8), which specifies that a copy of the RAO must be provided to public agencies owning and operating the public way where the RAO relies upon the exemption under 310 CMR 40.1012(3)(c). This applies to portions of the site that lie beneath Melnea Cass Boulevard, Albany Street and Massachusetts Avenue, where no AUL is required under the exemption. This notice was provided previously, at the time the Class C-2 RAO was filed in January 2007.

## FIGURES

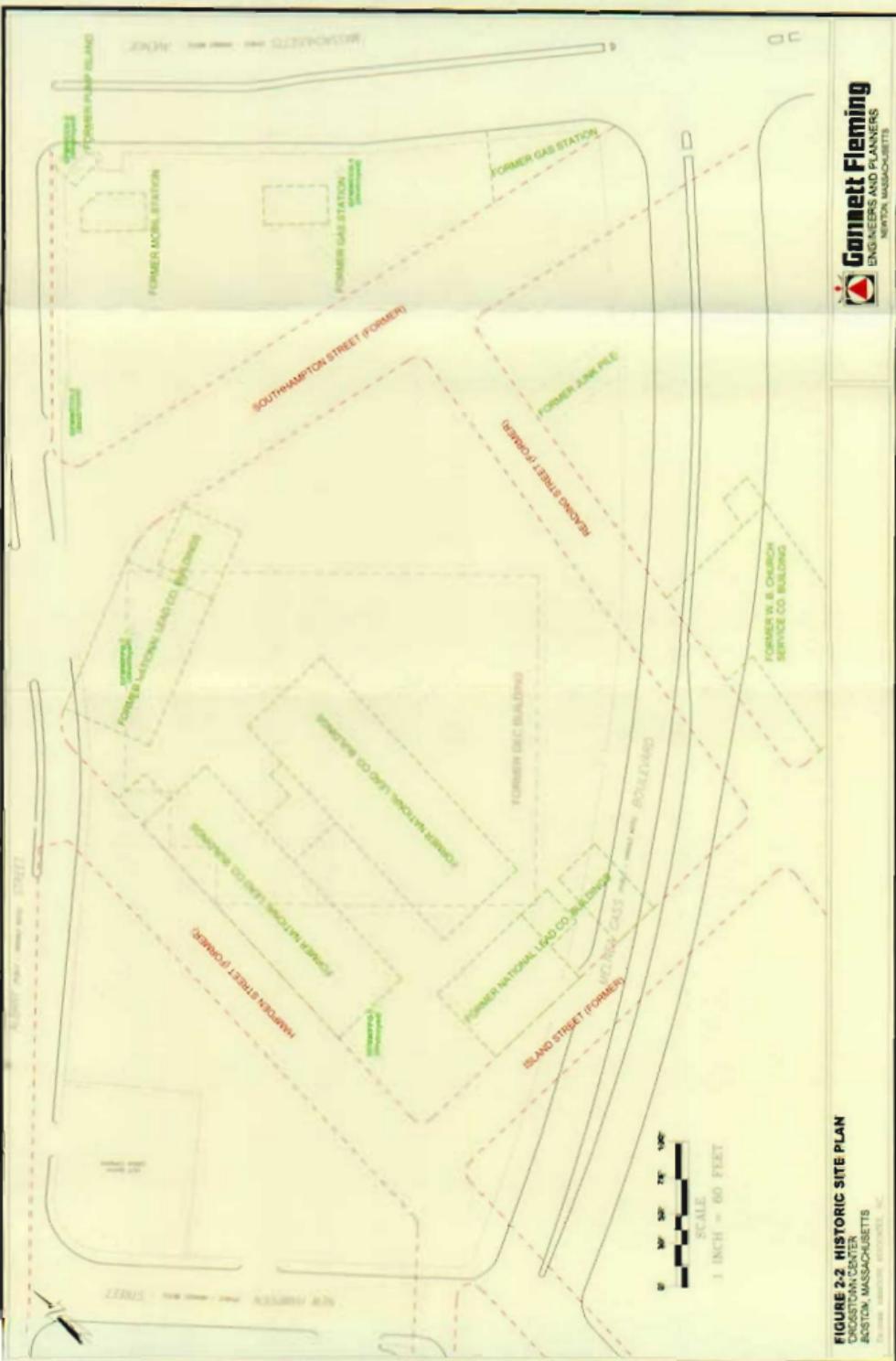


**Gannett Fleming**

199 Wells Avenue  
Suite 210  
Newton, Massachusetts 02459  
(617) 527-7822

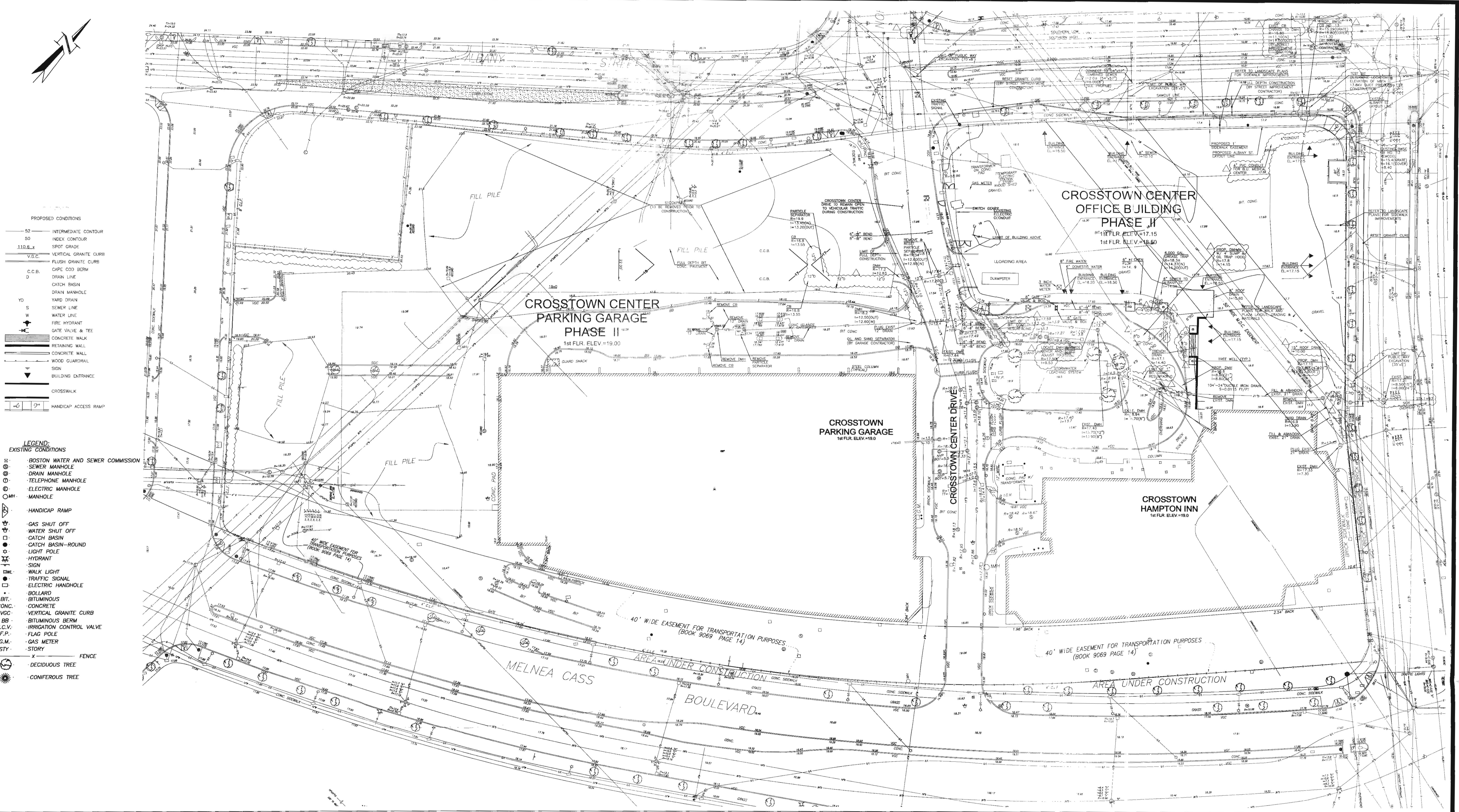
Figure 2-1: Area Locus Map

Location: **Crosstown Center**  
**801 Massachusetts Avenue**  
**Boston, Massachusetts**



## **FIGURE 2-2 HISTORIC SITE PLAN**

DROSSTOWN CENTER  
BOSTON, MASSACHUSETTS



## **FIGURE 2-3 SITE UTILITY PLAN (PRE-CONSTRUCTION)**

CROSSTOWN CENTER  
BOSTON, MASSACHUSETTS

SOURCE: HWMOORE ASSOCIATES, INC.



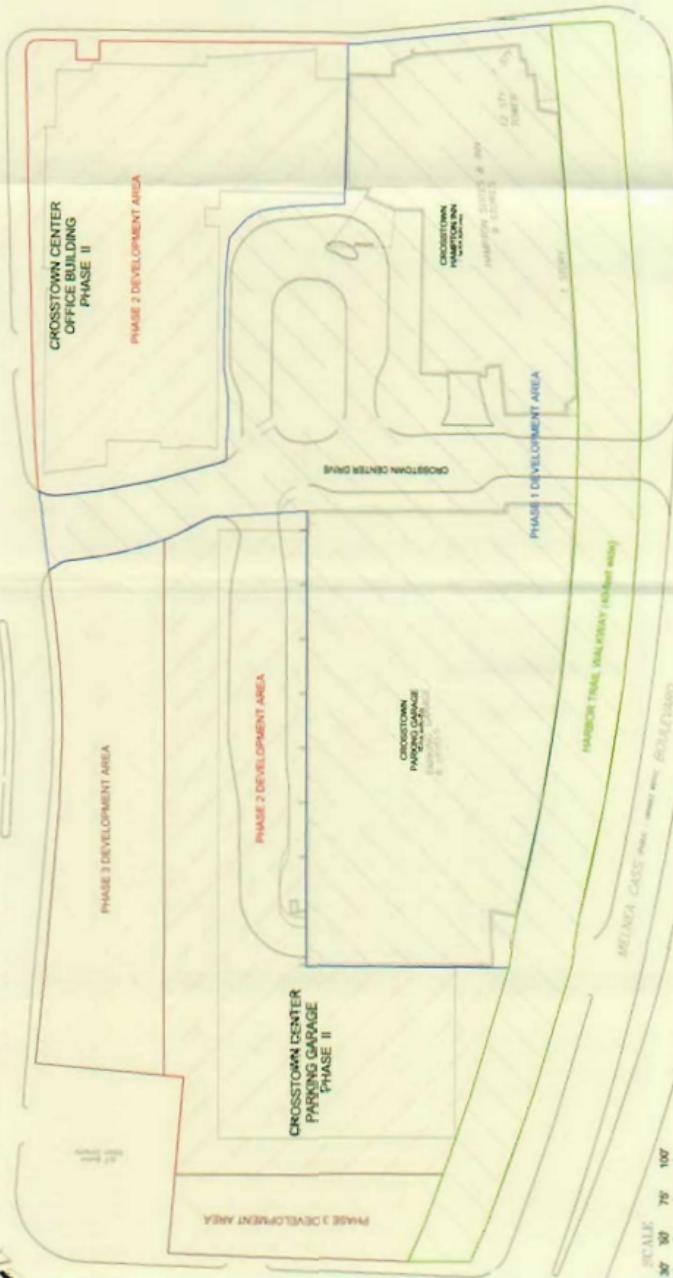
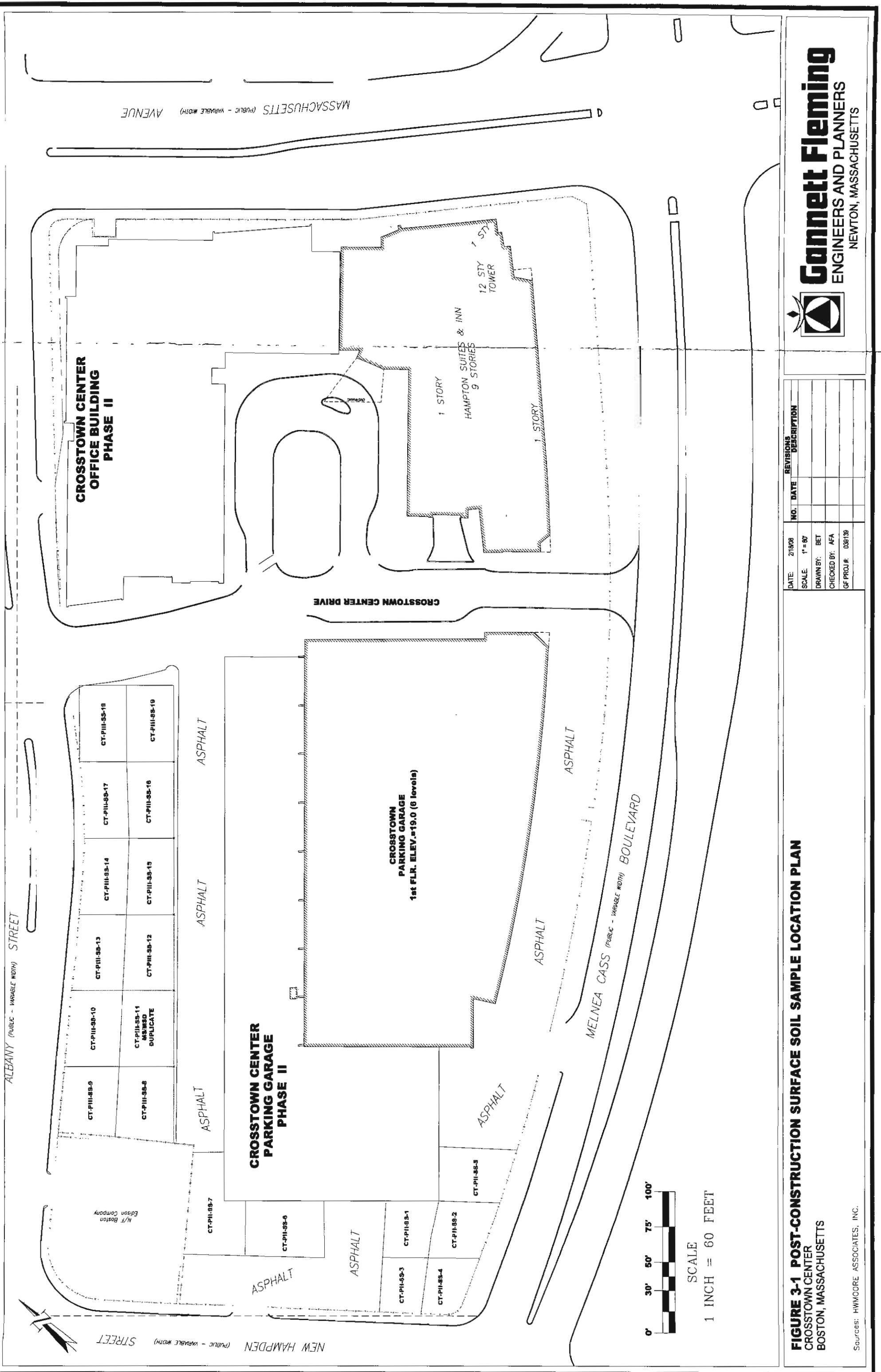


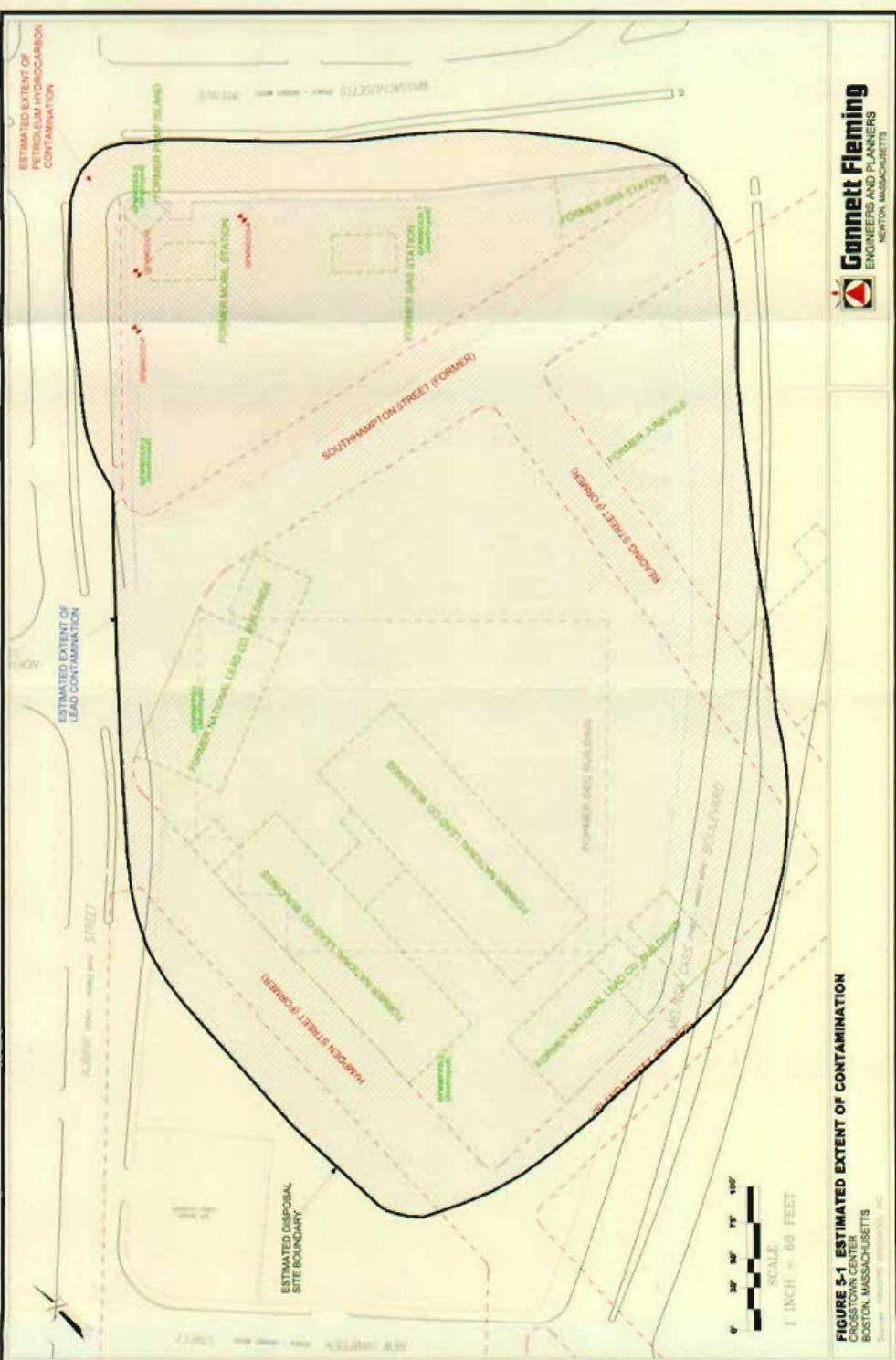
FIGURE 2-4 CROSSTOWN PROPOSED AND EXISTING DEVELOPMENT PLAN  
CROSSTOWN CENTER  
BOSTON, MASSACHUSETTS



## **FIGURE 3-1 POST-CONSTRUCTION SURFACE SOIL SAMPLE LOCATION PLAN**

CROSSTOWN CENTER

Sources: HWMOORE ASSOCIATES, INC.



**FIGURE 5-1 ESTIMATED EXTENT OF CONTAMINATION**  
CROSSTOWN CENTER

## **TABLES**

TABLE 4-1  
Data Quality Evaluation  
SOIL

	Analytes	Medium	Number of Samples	Pre-CAM	Presumptive Certainty
Harbor Trails	<i>IOC(s)</i>	Soil	37	27	10
	<i>SVOC(s)</i>		11	11	-
	<i>VPH/EPH</i>		7	7	-
	<i>VOC(s)</i>		7	7	-
	<i>PCB(s)</i>		2	2	-
Phase I	Analytes	Medium	Number of Samples	Pre-CAM	Presumptive Certainty
	<i>IOC(s)</i>	Soil	45	45	-
	<i>SVOC(s)</i>		24	24	-
	<i>VPH/EPH</i>		17	14	-
	<i>VOC(s)</i>		17	17	-
Phase II	<i>PCB(s)</i>		3	3	-
	Analytes	Medium	Number of Samples	Pre-CAM	Presumptive Certainty
	<i>IOC(s)</i>	Soil	62	16	46
	<i>SVOC(s)</i>		51	11	40
	<i>VPH/EPH</i>		58	8	50
Phase III	<i>VOC(s)</i>		48	8	40
	<i>PCB(s)</i>		43	3	40
	Analytes	Medium	Number of Samples	Pre-CAM	Presumptive Certainty
	<i>IOC(s)</i>	Soil	21	13	8
	<i>SVOC(s)</i>		15	15	-
	<i>VPH/EPH</i>		4	4	-
	<i>VOC(s)</i>		4	4	-
	<i>PCB(s)</i>		1	1	-

Acronyms:

- IOC - inorganic compounds
- PCB - polychlorinated biphenyls
- VOC - volatile organic compounds
- SVOC - semi volatile organic compounds
- VPH - volatile petroleum hydrocarbons
- EPH - extractable petroleum hydrocarbons

TABLE 3 - 0

Surface Soil Sampling Summary  
 November 2007  
 Crosstown Center  
 801 Albany Street  
 Roxbury, MA

LOCATION SAMPLING DATE	Units	CT-PII-SS-1 11/14/07	CT-PII-SS-2 11/14/07	CT-PII-SS-3 11/14/07	CT-PII-SS-4 11/14/07	CT-PII-SS-5 11/14/07	CT-PII-SS-6 11/14/07	CT-PII-SS-7 11/14/07	CT-PII-SS-8 11/14/07	CT-PII-SS-9 11/14/07	CT-PII-SS-10 11/14/07
Lead, Total	mg/kg	300	370	340	420	810	170	280	600	480	550

LOCATION SAMPLING DATE	Units	CT-PIII-SS-11 11/14/07	CT-PIII-SS-12 11/14/07	CT-PIII-SS-13 11/14/07	CT-PIII-SS-14 11/14/07	CT-PIII-SS-15 11/14/07	CT-PIII-SS-16 11/14/07	CT-PIII-SS-17 11/14/07	CT-PIII-SS-18 11/14/07	CT-PIII-SS-19 11/14/07	DUPPLICATE (CT-PIII-SS-11) 11/14/07
Lead, Total	mg/kg	590	1800	620	490	450	410	520	440	430	420

## **APPENDIX A**

MassDEP BWSC-104 RESPONSE ACTION OUTCOMES (RAO) Transmittal Form "Attachment" Section C.15  
Final soil totals through March 2007

FACILITY	TOWN	STATE	USAGE	March 2008 RAO	
				SOIL (CY)	
Haverhill Municipal Landfill	Haverhill	MA	daily cover	5,233	
Southbridge Municipal Landfill	Southbridge	MA	daily cover	2,981	
Greenwood Street Landfill	Worcester	MA	daily cover	2,133	
Taunton Landfill	Taunton	MA	daily cover	2,865	
	TOTAL			13,212	

## **APPENDIX B**

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>
L0717237-01	CT-PII-SS-1	BOSTON, MA
L0717237-02	CT-PII-SS-2	BOSTON, MA
L0717237-03	CT-PII-SS-3	BOSTON, MA
L0717237-04	CT-PII-SS-4	BOSTON, MA
L0717237-05	CT-PII-SS-5	BOSTON, MA
L0717237-06	CT-PII-SS-6	BOSTON, MA
L0717237-07	CT-PII-SS-7	BOSTON, MA
L0717237-08	CT-PIII-SS-8	BOSTON, MA
L0717237-09	CT-PIII-SS-9	BOSTON, MA
L0717237-10	CT-PIII-SS-10	BOSTON, MA
L0717237-11	CT-PIII-SS-11	BOSTON, MA
L0717237-12	CT-PIII-SS-12	BOSTON, MA
L0717237-13	CT-PIII-SS-13	BOSTON, MA
L0717237-14	CT-PIII-SS-14	BOSTON, MA
L0717237-15	CT-PIII-SS-15	BOSTON, MA
L0717237-16	CT-PIII-SS-16	BOSTON, MA
L0717237-17	CT-PIII-SS-17	BOSTON, MA
L0717237-18	CT-PIII-SS-18	BOSTON, MA
L0717237-19	CT-PIII-SS-19	BOSTON, MA
L0717237-20	DUPLICATE	BOSTON, MA

Project Name: CROSSTOWN

Lab Number: L0717237

Project Number: 044795

Report Date: 11/28/07

**MADEP MCP Response Action Analytical Report Certification**

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

**An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status**

- |   |   |     |
|---|---|-----|
| A | Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?  | YES |
| B | Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?                          | YES |
| C | Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? | YES |
| D | VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?  | N/A |

**A response to questions E and F is required for "Presumptive Certainty" status**

- |   |   |     |
|---|---|-----|
| E | Were all QC performance standards and recommendations for the specified method(s) achieved? | YES |
| F | Were results for all analyte-list compounds/elements for the specified method(s) reported?  | NO  |

**For any questions answered "No", please refer to the case narrative section on the following page(s).**

Please note that sample matrix information is located in the Sample Results section of this report.



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

### Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

#### MCP Related Narratives

##### Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Title: Technical Director/Representative

Date: 11/28/07

# METALS

11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-01 Date Collected: 11/14/07 15:30  
Client ID: CT-PII-SS-1 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil  
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	300	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:38	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-02 Date Collected: 11/14/07 15:35  
Client ID: CT-PII-SS-2 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	370	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:42	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-03 Date Collected: 11/14/07 15:40  
Client ID: CT-PII-SS-3 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil  
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	340	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:45	EPA 3005A	60,6010B	MG
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11280713:11

Project Name: CROSSTOWN

Project Number: 044795

Lab Number: L0717237

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-04

Date Collected: 11/14/07 15:45

Client ID: CT-PII-SS-4

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	420		mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:49	EPA 3005A	60,6010B	MG
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ALPHA  
ANALYTICAL LABORATORY

11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-05 Date Collected: 11/14/07 15:50  
Client ID: CT-PII-SS-5 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified

Matrix: Soil  
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	810	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:52	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-06  
Client ID: CT-PII-SS-6  
Sample Location: BOSTON, MA  
Matrix: Soil  
Percent Solids: 91%

Date Collected: 11/14/07 15:55  
Date Received: 11/16/07  
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	170	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:56	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-07 Date Collected: 11/14/07 16:00  
Client ID: CT-PII-SS-7 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil  
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	280	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:59	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-08

Date Collected: 11/14/07 16:20

Client ID: CT-PIII-SS-8

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	600	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:03	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-09 Date Collected: 11/14/07 16:25  
Client ID: CT-PIII-SS-9 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil  
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	480	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:25	EPA 3005A	60,6010B	MG
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11280713:11

Project Name: CROSSTOWN

Lab Number: L0717237

Project Number: 044795

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-10

Date Collected: 11/14/07 16:30

Client ID: CT-PIII-SS-10

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	550	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:29	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-11 Date Collected: 11/14/07 16:35  
Client ID: CT-PIII-SS-11 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified

Matrix: Soil  
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	590	mg/kg	2.2	1	11/26/07 17:30	11/27/07 21:04	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-12	Date Collected:	11/14/07 16:45
Client ID:	CT-PIII-SS-12	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	1800	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:32	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-13	Date Collected:	11/14/07 16:50
Client ID:	CT-PIII-SS-13	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	620	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:36	EPA 3005A	60,6010B	MG
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11280713:11

Project Name: CROSSTOWN

Lab Number: L0717237

Project Number: 044795

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-14

Date Collected: 11/14/07 16:55

Client ID: CT-PIII-SS-14

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	490	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:39	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-15 Date Collected: 11/14/07 17:00  
Client ID: CT-PIII-SS-15 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified

Matrix: Soil  
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	450	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:43	EPA 3005A	60,6010B	MG
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Project Name: CROSSTOWN

Project Number: 044795

Lab Number: L0717237

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-16

Date Collected: 11/14/07 17:05

Client ID: CT-PIII-SS-16

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	410	mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:46	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-17  
Client ID: CT-PIII-SS-17  
Sample Location: BOSTON, MA  
Matrix: Soil  
Percent Solids: 91%

Date Collected: 11/14/07 17:10  
Date Received: 11/16/07  
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	520		mg/kg	2.2	1	11/26/07 17:30	11/27/07 22:50	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-18	Date Collected:	11/14/07 17:15
Client ID:	CT-PIII-SS-18	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	94%		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	440	mg/kg	2.1	1	11/26/07 17:30	11/27/07 22:53	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-19 Date Collected: 11/14/07 17:20  
Client ID: CT-PIII-SS-19 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil  
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	430		mg/kg	2.3	1	11/26/07 17:30	11/27/07 22:56	EPA 3005A	60,6010B	MG
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11280713:11

Project Name: CROSSTOWN

Project Number: 044795

Lab Number: L0717237

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID: L0717237-20

Date Collected: 11/14/07 00:00

Client ID: DUPLICATE

Date Received: 11/16/07

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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**Total Metals by MCP 6000/7000 series**

Lead, Total	420		mg/kg	2.2	1	11/26/07 17:30	11/27/07 23:19	EPA 3005A	60,6010B	MG
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11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

### **Method Blank Analysis Batch Quality Control**

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals by MCP 6000/7000 series for sample(s): 01-20 Batch: WG303323-1								
Lead, Total	ND	mg/kg	2.0	1	11/26/07 17:30	11/27/07 20:49	60,6010B	MG

#### **Prep Information**

Digestion Method: EPA 3005A



**Lab Control Sample Analysis**

Project Name: CROSSTOWN  
Project Number: 044795

Batch Quality Control  
Associated sample(s): 01-20  
Report Date: 11/28/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals by MCP 6000/7000 series	99	94	75-125	5	30
Lead, Total					

**INORGANICS  
&  
MISCELLANEOUS**



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-01	Date Collected:	11/14/07 15:30
Client ID:	CT-PII-SS-1	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-02	Date Collected:	11/14/07 15:35
Client ID:	CT-PII-SS-2	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-03	Date Collected:	11/14/07 15:40
Client ID:	CT-PII-SS-3	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyal
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-04	Date Collected:	11/14/07 15:45
Client ID:	CT-PII-SS-4	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-05	Date Collected:	11/14/07 15:50
Client ID:	CT-PII-SS-5	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-06	Date Collected:	11/14/07 15:55
Client ID:	CT-PII-SS-6	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	91		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-07	Date Collected:	11/14/07 16:00
Client ID:	CT-PII-SS-7	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	91		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-08	Date Collected:	11/14/07 16:20
Client ID:	CT-PIII-SS-8	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-09	Date Collected:	11/14/07 16:25
Client ID:	CT-PIII-SS-9	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	92		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-10	Date Collected:	11/14/07 16:30
Client ID:	CT-PIII-SS-10	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Salids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-11	Date Collected:	11/14/07 16:35
Client ID:	CT-PIII-SS-11	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	89		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-12	Date Collected:	11/14/07 16:45
Client ID:	CT-PIII-SS-12	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

### SAMPLE RESULTS

Lab ID:	L0717237-13	Date Collected:	11/14/07 16:50
Client ID:	CT-PIII-SS-13	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713;11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

## SAMPLE RESULTS

Lab ID: L0717237-14 Date Collected: 11/14/07 16:55  
Client ID: CT-PIII-SS-14 Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	91		%	0.10	1	-	11/17/07 11:40	30,2540G	NM

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-15	Date Collected:	11/14/07 17:00
Client ID:	CT-PIII-SS-15	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-16	Date Collected:	11/14/07 17:05
Client ID:	CT-PIII-SS-16	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM

11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-17	Date Collected:	11/14/07 17:10
Client ID:	CT-PIII-SS-17	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	91		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-18	Date Collected:	11/14/07 17:15
Client ID:	CT-PIII-SS-18	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	94		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

Project Name: CROSSTOWN

Lab Number: L0717237

Project Number: 044795

Report Date: 11/28/07

**SAMPLE RESULTS**

Lab ID:	L0717237-19	Date Collected:	11/14/07 17:20
Client ID:	CT-PIII-SS-19	Date Received:	11/16/07
Sample Location:	BOSTON, MA	Field Prep:	Not Specified
Matrix:	Soil		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	87		%	0.10	1	-	11/17/07 11:40	30,2540G	NM



11280713:11

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

## SAMPLE RESULTS

Lab ID: L0717237-20 Date Collected: 11/14/07 00:00  
Client ID: DUPLICATE Date Received: 11/16/07  
Sample Location: BOSTON, MA Field Prep: Not Specified  
Matrix: Soil

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry</b>									
Solids, Total	90		%	0.10	1	-	11/17/07 11:40	30,2540G	NM

Project Name: CROSSTOWN  
Project Number: 044795

**Lab Duplicate Analysis**  
**Batch Quality Control**

Associated sample(s): 01-20 QC Batch ID: WG302593-1 QC Sample: L0717237-01 Client ID: CT-PII-SS-1  
Report Date: 11/28/07

<u>Parameter</u>	<u>Native Sample</u>	<u>Duplicate Sample</u>	<u>Units</u>	<u>RPD</u>	<u>RPD Limits</u>
Solids, Total	89	90	%	1	20

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

### Sample Receipt and Container Information

Were project specific reporting limits specified? **YES**

#### Cooler Information

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0717237-01A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-02A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-03A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-04A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-05A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-06A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-07A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-08A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-09A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-10A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-11A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-11B	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-11C	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-12A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-13A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-14A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-15A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-16A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-17A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-18A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-19A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS
L0717237-20A	Amber 250ml unpreserved	A	NA	2C	Y	Absent	MCP-PB-6010T,TS

#### Container Comments

L0717237-01A Temp Probe  
L0717237-02A Temp Probe  
L0717237-03A Temp Probe  
L0717237-04A Temp Probe  
L0717237-05A Temp Probe

**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis</b>
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**Container Comments**

L0717237-06A	Temp Probe
L0717237-07A	Temp Probe
L0717237-08A	Temp Probe
L0717237-09A	Temp Probe
L0717237-10A	Temp Probe
L0717237-11A	Temp Probe
L0717237-11B	Temp Probe
L0717237-11C	Temp Probe
L0717237-12A	Temp Probe
L0717237-13A	Temp Probe
L0717237-14A	Temp Probe
L0717237-15A	Temp Probe
L0717237-16A	Temp Probe
L0717237-17A	Temp Probe
L0717237-18A	Temp Probe
L0717237-19A	Temp Probe
L0717237-20A	Temp Probe



**Project Name:** CROSSTOWN  
**Project Number:** 044795

**Lab Number:** L0717237  
**Report Date:** 11/28/07

## GLOSSARY

### **Acronyms**

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NI - Not Ignitable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND - Not detected at the reported detection limit for the sample.
- RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

### **Terms**

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### **Data Qualifiers**

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

### **Standard Qualifiers**

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



**Project Name:** CROSSTOWN

**Project Number:** 044795

**Lab Number:** L0717237

**Report Date:** 11/28/07

## REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

## LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at its own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## CHAIN OF CUSTODY

PAGE 3 OF 3Date Rec'd In Lab: 11/16/07

## Project Information

ALPHA Job #: LD717237

MANSFIELD, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

## Client Information

Project Name: Crossstown  
Project Location: Boston  
Project #: 044795  
Client: Gannett Fleming  
Address: 199 Wells Ave, Ste 210  
Phone: 617-527-7822  
Fax: 617-527-7806  
Email: bterry@gfrc.com

## Turn-Around Time

Date Due: 11/27/07Time: 10:00 AM These samples have been previously analyzed by Alpha Other Project Specific Requirements/Comments/Detection limits:ALPHA Quote #: 210 Standard FUSION (only confirmed if pre-arranged)Project Manager: Bruce Terry Turn-Around Time State / Fed Program Criteria

## MAMCP PRESUMPTIVE CERTAINTY...CTREASONABLE CONFIDENCE PROTOCOLS

 Yes  No Are MCP Analytical Methods Required? Yes  No Are CT RCP (Reasonable Confidence Protocols) Required?

## Report Information - Data Deliverables

 EMAIL FAX ADEX

## Regulatory Requirements/Report Limits

 Addl Deliverables

## State / Fed Program

 Criteria

## Criteria

## Billng Information

 Same as Client Info PO #:

## Comments

## SAMPLE HANDLING

 Filtration Done Not needed Lab to do Preservation Lab to do Please specify below

## Sample Specific Comments

## Comments

11280713:1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MA MCP or CT RCP?

FORM NO 01-01 (rev. 30-JUL-07)

Relinquished By:  
RJH

Date/Time: 11/15/07 10:00 AM

Received By:  
Sample fridge

Date/Time: 11/16/07 10:00 AM

Comments:  
Chilled and ready

Date/Time: 11/16/07 10:00 AM

Comments:  
ANALYSIS

Date/Time: 11/16/07 10:00 AM

Comments:  
RJH

Date/Time: 11/16/07 10:00 AM

Comments:  
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Date/Time: 11/16/07 10:00 AM

# CHAIN OF CUSTODY

PAGE 2 OR 3

ALPHA Job #: LO 717237



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

## Project Information

MANSFIELD, MA  
TEL: 508-822-3070  
FAX: 508-822-3248

## Client Information

Client: Gannett Fleming  
Address: 190 Wells Ave, Ste. A  
Phone: 617-527-7822  
Fax: 617-527-7806  
Email: bterry@gfnet.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:  
  
Turn-Around Time:  Standard      Date Due: 11/21/07      Time: Time confirmed if pre-analyzed

Date Rec'd In Lab: 11/16/07

Date Delivered: 11/16/07

## Report Information - Data Deliverables

EMAIL

Add' Deliverables

## Regulatory Requirements/Report Limits

State/Fed Program: \_\_\_\_\_

Criteria: \_\_\_\_\_

## MA MCP PRESUMPTIVE CERTAINTY -- CTREASONABLE CONFIDENCE PROTOCOLS

Yes       No      Are MCP Analytical Methods Required?  
 Yes       No      Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING	
<input checked="" type="checkbox"/> Done	<input type="checkbox"/> Filtration
<input type="checkbox"/> Not needed	<input type="checkbox"/> Lab to do
<input type="checkbox"/> Lab to do	<input type="checkbox"/> Preservation
(Please specify below)	

*Total PB*

ANALYSIS

## Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Sample Time	Sampler's Initials
17237-11	CT-P III-SS-11	11/16/07	4:35	S
-12	CT-P III-SS-12		4:45	RJH
-13	CT-P III-SS-13		4:50	X
-14	CT-P III-SS-14		4:55	
-15	CT-P III-SS-15		5:00	
-16	CT-P III-SS-16		5:05	
-17	CT-P III-SS-17		5:10	
-18	CT-P III-SS-18		5:15	
-19	CT-P III-SS-19		5:20	

Container Type: G  
Preservative: \_\_\_\_\_

## Received By:

RJH

Date/Time: 11/16/07 1:30 PM

## PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MA MCP or CT RCP?

FORM NO. 01-01 (Rev. 30-JUL-07)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Date/Time: 11/16/07 1:30 PM

Relinquished By: Sample Service Manager

Received By: Sample Service Manager

# CHAIN OF CUSTODY

PAGE 3 OF 3



MANSFIELD, MA  
WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

## Client Information

Client: **Gannett Fleming**  
Address: **199 Wells Ave., Ste. 210**  
**Newton, MA**  
Phone: **(617) 527-7822**  
Fax: **(617) 527-7806**  
Email: **bterry@gfnet.com**

Project Specific Requirements/Comments/Detection Limits:  
 These samples have been previously analyzed by Alpha

## Project Information

Project Name: **CrossTown**  
Project Location: **Boston**  
Project #: **044795**  
Project Manager: **Bruce Terry**  
ALPHA Quote #: **200**  
Turn-Around Time  
Standard       RUSH (only confirmed if pre-approved)  
Date Due: **11/27/07**      Time: **11:00 AM**

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab:	<b>11/16/07</b>
Report Information - Data Deliverables	<input checked="" type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> ADEx <input type="checkbox"/> Addl Deliverables
Regulatory Requirements/Report Limits	<input type="checkbox"/> Same as Client Info <input type="checkbox"/> PO #:
State /Fed Program	Criteria

MAMCP PRESUMPTIVE CERTAINTY ...CTREASONABLE CONFIDENCE PROTOCOLS	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are MCP Analytical Methods Required?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are CT RCP (Reasonable Confidence Protocols) Required?	

SAMPLE HANDLING	
<input type="checkbox"/> Filtration	<input type="checkbox"/> Done
<input type="checkbox"/> Not needed	<input type="checkbox"/> #
<input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab
<input type="checkbox"/> Preservation	<input type="checkbox"/> O
<input type="checkbox"/> Lab to do	<input type="checkbox"/> T
(Please specify below)	
Sample Specific Comments	

ALPHA	R6
ANALYSIS	

ALPHA Lab ID (Lab Use Only)	Collection Date	Sample Matrix	Sampler's Initials
11231-2611MSD3	11/14/07 4:35	5	RJH X
11231-2611MSD3	11/14/07 4:35	—	—
-20-26 Duplicate	—	—	—
-20-26 Temp. Blank	—	—	—

Container Type	<b>G</b>
Preservative	<b>A</b>
Received By:	<b>Rebecca</b>
Date/Time Relinquished By:	<b>11/15/07 10:30 AM</b>
Date/Time Sample Received:	
<b>11/16/07 11:00 AM</b>	
Date/Time Sample Analyzed:	
<b>11/16/07 11:00 AM</b>	
Date/Time Sample Released:	
<b>11/16/07 11:00 AM</b>	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
MA MCP or CT RCP?  
Relinquished By: **Rebecca**

Received By: **Rebecca**

Date/Time Sample Received: **11/15/07 10:30 AM**

Date/Time Sample Analyzed: **11/16/07 11:00 AM**

Date/Time Sample Released: **11/16/07 11:00 AM**

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

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## **APPENDIX C**

**Table 3-1**  
**Total Inorganics in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-1 6/8/2001	GF-1 9/20/2002	GF-10 9/18/2002	GF-2 6/8/2001	GF-2 9/20/2002
Arsenic	NA	900	9,000	< 50	< 50	< 50	130	< 50
Barium	NA	50,000	100,000	1,300	140	< 50	3,400	280
Cadmium	NA	4	50	16	< 5	< 5	< 5	< 5
Chromium	NA	300	3,000	240	< 20	< 20	310	< 20
Lead	NA	10	150	<b>5,690</b>	<b>&lt; 25</b>	<b>&lt; 25</b>	<b>7,700</b>	<b>&lt; 25</b>
Mercury	NA	20	200	19.2	< 0.5	< 0.5	<b>68.4</b>	< 0.5
Selenium	NA	100	1,000	< 50	< 50	< 50	< 50	< 50
Silver	NA	7	1,000	7	5	< 5	< 5	< 5
Figure No.				3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	RAM Plan Mod. 11/02	PH II CSA 8/01	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02
ESS Lab Ref #				01060149-07	02090284-03	02090284-01	01060149-06	02090284-06
Case Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

**Value** = concentration exceeds Method 1 standard.

Shaded concentration exceeds UCL

**Table 3-1**  
**Total Inorganics in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-3 6/8/2001	GF-4 6/8/2001	GF-4 9/20/2002	GF-6 6/8/2001	GF-6 9/20/2002
Arsenic	NA	900	9,000	280	< 50	< 50	< 50	< 50
Barium	NA	50,000	100,000	1,800	300	90	400	< 50
Cadmium	NA	4	50	< 25	< 5	< 5	< 5	< 5
Chromium	NA	300	3,000	710	70	< 20	< 50	< 20
Lead	NA	10	150	4,500	650	< 25	340	< 25
Mercury	NA	20	200	1	2.22	< 0.5	< 1	< 0.5
Selenium	NA	100	1,000	< 250	< 50	< 50	< 50	< 50
Silver	NA	7	1,000	< 25	< 5	< 5	< 5	< 5
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	RAM Plan Mod. 11/02	PH II CSA 8/01	RAM Plan Mod. 11/02			
ESS Lab Ref #	01060149-08	01060149-01	02090284-04	01060149-03	02090284-05	yes	yes	yes
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

Value = concentration exceeds Method 1 standard.

Shaded concentration exceeds UCL.

**Table 3-1**  
**Total Inorganics in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-7 6/8/2001	GF-7 9/23/2002	GF-8 9/23/2002	GF-9 6/11/2001	GF-9 6/14/2001
Arsenic	NA	900	9,000	< 50	< 50	< 50	< 250	< 50
Barium	NA	50,000	100,000	300	170	70	2,100	200
Cadmium	NA	4	50	< 5	< 5	< 5	< 25	< 5
Chromium	NA	300	3,000	90	60	< 20	880	50
Lead	NA	10	150	490	296	< 25	8,840	340
Mercury	NA	20	200	< 1	< 0.5	< 0.5	1.26	< 1
Selenium	NA	100	1,000	< 50	< 50	< 50	< 250	< 50
Silver	NA	7	1,000	< 5	< 5	< 5	< 25	< 5
Figure No.				3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #				01060149-05	02090284-07	02090284-08	01060149-10	01060237-03
Case Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

**Value** = concentration exceeds Method 1 standard.

Shaded concentration exceeds UCL

**Table 3-1**  
**Total Inorganics in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-9 9/23/2002	MW-1 6/8/2001	MW-2 6/14/2001	MW-2 6/18/2001	MW-2 9/18/2002
Arsenic	NA	900	9,000	< 50	< 50	< 50	60	< 50
Barium	NA	50,000	100,000	70	300	200	200	< 50
Cadmium	NA	4	50	< 5	< 5	< 5	< 5	< 5
Chromium	NA	300	3,000	< 20	< 50	< 50	60	< 20
Lead	NA	10	150	< 25	830	470	510	< 25
Mercury	NA	20	200	< 0.5	< 1	< 1	< 1	< 0.5
Selenium	NA	100	1,000	< 50	< 50	< 50	< 50	< 50
Silver	NA	7	1,000	< 5	< 5	< 5	< 5	< 5
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	RAM Plan Mod. 11/02	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	RAM Plan Mod. 11/02
ESS Lab Ref #	02090284-09	01060149-02	01060237-03	01060276-02	01060276-02	01060276-02	01060276-02	02090284-02
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

**Value** = concentration exceeds Method 1 standard.

Shaded concentration exceeds UCL

**Table 3-2**  
**Inorganics (Filtered) in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	Method 1 UCL	GFMWCCO-1 2/10/2006	GFMWCCO-2 2/10/2006	GFMWCCO-3 2/10/2006	GFMWPPG-1 2/10/2006	GFMWPPG-2 2/10/2006
Arsenic	NA	900	9,000	< 50	< 50	< 50	< 50	< 50
Barium	NA	50,000	100,000	128	269	205	< 50	79
Cadmium	NA	4	50	< 5	< 5	< 5	< 5	< 5
Chromium	NA	300	3,000	< 20	< 20	< 20	< 20	< 20
Lead	NA	10	150	< 5	< 5	< 5	< 5	9.7
Mercury	NA	20	200	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Selenium	NA	100	1,000	< 50	< 50	< 50	< 50	< 50
Silver	NA	7	1,000	< 5	< 5	< 5	< 5	< 5
Figure No.				4-5	4-5	4-5	4-5	4-5
Original Lab Reference Date:				PH II CSA 8/06				
ESS Lab Ref #				0602173-01	0602173-02	0602173-03	0602173-04	0602173-05
Case Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Presumptive certainty				

All units are ug/L.

NA = not applicable.

**Value** = concentration exceeds Method 1 standard.

**Table 3-3**  
**Semi-Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-1 6/8/2001	GF-2 6/8/2001	GF-3 6/8/2001	GF-4 6/12/2001	GF-6 6/13/2001	GF-7 6/12/2001	GF-9 6/13/2001
Acenaphthene	NA	5,000	50,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Acenaphthylene	NA	3,000	30,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Anthracene	NA	3,000	30,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Benz(a)anthracene	NA	1,000	10,000	< 11.2	< 10.3	< 10	12.3	< 10.4	< 10.2	< 10.9
Benzo(a)pyrene	NA	500	5,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Benzo(b)fluoranthene	NA	400	4,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Benzo(ghi)perylene	NA	3,000	30,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Benzo(k)fluoranthene	NA	100	1,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Bis(2-ethylhexyl) phthalate	50,000	30	100,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Butylbenzyl phthalate	NA	NA	NA	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Chrysene	NA	3,000	30,000	< 11.2	< 10.3	< 10	11.9	< 10.4	< 10.2	< 10.9
Dibenz(ah)anthracene	NA	40	400	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Dibenzofuran	NA	NA	NA	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Di-n-octyl phthalate	NA	NA	NA	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Fluoranthene	NA	200	2,000	< 11.2	< 10.3	< 10	23.6	< 10.4	< 10.2	< 10.9
Fluorene	NA	3,000	30,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Indeno(1,2,3-cd)pyrene	NA	100	1,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Methylnaphthalene, 2-	10,000	3,000	100,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Methylphenol, 3- and/or 4-	NA	NA	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.2	< 10.9
Naphthalene	1,000	20,000	100,000	< 11.2	< 10.3	< 10	< 11.1	< 10.4	< 10.2	< 10.9
Phenanthrene	NA	50	400	< 11.2	< 10.3	< 10	12.8	< 10.4	< 10.2	< 10.9
Pyrene	NA	20	800	< 11.2	< 10.3	< 10	24.3	< 10.4	< 10.2	< 10.9
Figure No.		3-4		3-4		3-4		3-4		3-4
Original Lab Reference Date:		PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref#	01060149-07	01060149-06	01060149-08	01060149-02	01060205-06	01060206-03	01060205-06	01060206-03	01060205-08	01060205-08
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

**Table 3-3**  
**Semi-Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GFMWCCO-1 2/10/2006	GFMWCCO-2 2/10/2006	GFMWCCO-3 2/10/2006	GFMWPPG-1 2/10/2006	GFMWPPG-2 2/10/2006	MW-1 6/8/2001
Acenaphthene	NA	5,000	50,000	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	NA	3,000	30,000	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	NA	3,000	30,000	< 10	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	NA	1,000	10,000	< 10	< 10	< 10	< 10	< 10	< 10
Benz(a)pyrene	NA	500	5,000	< 10	< 10	< 10	< 10	< 10	< 10
Benz(b)fluoranthene	NA	400	4,000	< 10	< 10	< 10	< 10	< 10	< 10
Benz(ghi)perylene	NA	3,000	30,000	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	NA	100	1,000	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-ethylhexyl) phthalate	50,000	30	100,000	-	-	-	-	-	< 10
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	< 10
Chrysene	NA	3,000	30,000	< 10	< 10	< 10	< 10	< 10	< 10
Dibenz(ah)anthracene	NA	40	400	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	NA	NA	NA	-	-	-	-	-	< 10
Di-n-octyl phthalate	NA	NA	NA	-	-	-	-	-	< 10
Fluoranthene	NA	200	2,000	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	NA	3,000	30,000	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	NA	100	1,000	< 10	< 10	< 10	< 10	< 10	< 10
Methylnaphthalene, 2-	10,000	3,000	100,000	< 5	< 5	< 5	< 5	< 5	< 10
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	< 10
Naphthalene	1,000	20,000	100,000	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	NA	50	400	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	NA	20	800	< 10	< 10	< 10	< 10	< 10	< 10
Figure No.				4-5	4-5	4-5	4-5	4-5	3-4
Original Lab Reference Date:				PH II CSA 8/06 0602/73-01	PH II CSA 8/06 0602/73-02	PH II CSA 8/06 0602/73-03	PH II CSA 8/06 0602/73-04	PH II CSA 8/06 0602/73-05	PH II CSA 8/01 01060149-02
ESS Lab Ref #				yes	yes	yes	yes	yes	yes
Case Narrative				yes	yes	yes	yes	yes	yes
QA / QC Section									
Data Quality									Pre-CAM
Presumptive certainty									Presumptive certainty
Case Narrative									Presumptive certainty
QA / QC Section									Presumptive certainty
Data Quality									Presumptive certainty

All units are ug/L.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-3**  
**Semi-Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	MW-2 6/13/2001	GFMWCCO-4 10/27/2006	GFMWCCO-5 10/27/2006	GFMWCCO-6 10/27/2006
Acenaphthene	NA	5,000	50,000	< 10.9	< 10	< 10	< 10
Acenaphthylene	NA	3,000	30,000	< 10.9	< 10	< 10	< 10
Anthracene	NA	3,000	30,000	< 10.9	< 10	< 10	< 10
Benz(a)anthracene	NA	1,000	10,000	< 10.9	< 10	< 10	< 10
Benzo(a)pyrene	NA	500	5,000	< 10.9	< 10	< 10	< 10
Benzo(b)fluoranthene	NA	400	4,000	< 10.9	< 10	< 10	< 10
Benzo(ghi)perylene	NA	3,000	30,000	< 10.9	< 10	< 10	< 10
Benzo(k)fluoranthene	NA	100	1,000	< 10.9	< 10	< 10	< 10
Bis(2-ethylhexyl) phthalate	50,000	30	100,000	< 10.9	-	-	-
Butylbenzyl phthalate	NA	NA	< 10.9	-	-	-	-
Chrysene	NA	3,000	30,000	< 10.9	< 10	< 10	< 10
Dibenz(ah)anthracene	NA	40	400	< 10.9	< 10	< 10	< 10
Dibenzofuran	NA	NA	NA	< 10.9	-	-	-
Di-n-octyl phthalate	NA	NA	NA	< 10.9	-	-	-
Fluoranthene	NA	200	2,000	< 10.9	< 10	< 10	< 10
Fluorene	NA	3,000	30,000	< 10.9	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	NA	100	1,000	< 10.9	< 10	< 10	< 10
Methylnaphthalene, 2-	10,000	3,000	100,000	< 10.9	< 5	< 5	< 5
Methylphenol, 3- and/or 4-	NA	NA	< 10.9	-	-	-	-
Naphthalene	1,000	20,000	100,000	< 10.9	< 10	< 10	< 10
Phenanthrene	NA	50	400	< 10.9	< 10	< 10	< 10
Pyrene	NA	20	800	< 10.9	< 10	< 10	< 10
Figure No.		3-4	5	5	5	5	5
Original Lab Reference Date:		PH II CSA 8/01	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06
ESS Lab Ref #		01060149-07	0610574-01	0610574-02	0610574-03	0610574-03	0610574-03
Case Narrative		yes	yes	yes	yes	yes	yes
QA / QC Section		yes	yes	yes	yes	yes	yes
Data Quality		Pre-CAM	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are ug/L.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

**Table 3-4**  
**EPH / VPH in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-1 6/8/2001	GF-2 6/8/2002	GF-2 9/20/2002	GF-3 6/8/2001	GF-3 6/12/2001
Aliphatics, C5-C8	1,000	4,000	100,000	< 100	362	< 100	< 100	-
Aliphatics, C9-C12	1,000	20,000	100,000	293	< 100	141	< 100	-
Aliphatics, C9-C18	1,000	20,000	100,000	<b>8,700</b>	< 200	<b>2,100</b>	< 200	< 200
Aliphatics, C19-C36	NA	20,000	100,000	6,400	< 200	800	< 200	< 200
Aromatics, C9-C10	5,000	4,000	100,000	287	< 100	235	< 100	-
Aromatics, C11-C22	50,000	30,000	100,000	7,600	< 200	2,000	< 200	200
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	RAM Plan Mod. 1/1/02	PH II CSA 8/01	RAM Plan Mod. 1/1/02	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01060237-07	02090284-03	01060237-06	02090284-06	01060149-04	01060205-01		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

**Table 3-4**  
**EPH / VPH in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-4 6/8/2001	GF-4 6/13/2001	GF-6 6/8/2001	GF-6 6/13/2001	GF-7 6/1/2001	GF-7 6/11/2001
Aliphatics, C5-C8	1,000	4,000	100,000	< 100	-	< 100	-	< 100	< 100
Aliphatics, C9-C12	1,000	20,000	100,000	< 100	-	< 100	-	< 100	< 100
Aliphatics, C9-C18	1,000	20,000	100,000	-	< 200	-	< 200	-	-
Aliphatics, C19-C36	NA	20,000	100,000	-	< 200	-	< 200	-	-
Aromatics, C9-C10	5,000	4,000	100,000	< 100	-	< 100	-	< 100	< 100
Aromatics, C11-C22	50,000	30,000	100,000	-	1,200	-	200	-	-
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01060149-01	01060205-09	01060149-03	01060205-06	01060149-05	01060205-06	01060149-05	01060149-05	01060149-12
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

**Table 3-4**  
**EPH / VPH in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-8 6/14/2001	GF-9 6/11/2001	GF-9 6/18/2001	GFMWCCO-1 2/10/2006	GFMWCCO-2 2/10/2006
Aliphatics, C5-C8	1,000	4,000	100,000	< 100	< 100	-	< 200	582
Aliphatics, C9-C12	1,000	20,000	100,000	< 100	< 100	-	< 200	<b>1,020</b>
Aliphatics, C9-C18	1,000	20,000	100,000	-	-	< 200	< 200	348
Aliphatics, C19-C36	NA	20,000	100,000	-	-	< 200	< 200	< 200
Aromatics, C9-C10	5,000	4,000	100,000	< 100	< 100	-	< 100	582
Aromatics, C11-C22	50,000	30,000	100,000	-	-	< 200	< 150	537
Figure No.			3-4	3-4	3-4	3-4	4-5	4-5
Original Lab Reference Date:			PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/06
ESS Lab Ref #			01060237-01	01060149-10	01060276-01	0602173-01	0602173-02	
Case Narrative			yes	yes	yes	yes	yes	
QA / QC Section			yes	yes	yes	yes	yes	
Data Quality			Pre-CAM	Pre-CAM	Pre-CAM	Presumptive certainty	Presumptive certainty	

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

**Table 3-4**  
**EPH / VPH in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GFMWCCO-3 2/10/2006	GFMWPPG-1 2/10/2006	GFMWPPG-2 2/10/2006	MW-1 6/8/2001	MW-2 6/12/2001
Aliphatics, C5-C8	1,000	4,000	100,000	< 200	< 200	< 200	< 100	< 100
Aliphatics, C9-C12	1,000	20,000	100,000	< 200	< 200	< 200	< 100	< 100
Aliphatics, C9-C18	1,000	20,000	100,000	< 200	< 200	< 200	< 200	-
Aliphatics, C19-C36	NA	20,000	100,000	< 200	< 200	< 200	600	-
Aromatics, C9-C10	5,000	4,000	100,000	< 100	< 100	< 100	< 100	< 100
Aromatics, C11-C22	50,000	30,000	100,000	< 150	< 150	< 150	300	-
Figure No.				4-5	4-5	4-5	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	0602173-03	0602173-04	0602173-05	01060149-02	01060149-02	01060205-04		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-4**  
**EPH / VPH in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	MW-2 6/14/2001	MW-2 6/18/2001	GFM/WCCO-4 10/27/2006	GFM/WCCO-5 10/27/2006	GFM/WCCO-6 10/27/2006
Aliphatics, C5-C8	1,000	4,000	100,000	< 100	-	575	838	< 200
Aliphatics, C9-C12	1,000	20,000	100,000	< 100	-	279	287	< 200
Aliphatics, C9-C18	1,000	20,000	100,000	-	< 200	< 200	< 200	< 200
Aliphatics, C19-C36	NA	20,000	100,000	-	< 200	< 200	< 200	< 200
Aromatics, C9-C10	5,000	4,000	100,000	< 100	-	120	< 100	< 100
Aromatics, C11-C22	50,000	30,000	100,000	-	< 200	< 150	< 150	< 150
Figure No.	3-4	3-4	3-4	5	5	5	5	5
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06	RAM Status 12/06
ESS Lab Ref #	01060237-03	01060276-02	0610574-01	0610574-02	0610574-03	0610574-03	0610574-03	0610574-03
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Presumptive Certainty	Presumptive Certainty	Presumptive Certainty	Presumptive Certainty	Presumptive Certainty

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

**Table 3-5**  
**Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-1 6/8/2001	GF-2 6/8/2001	GF-3 6/8/2001	GF-4 6/8/2001	GF-6 6/8/2001
Benzene	2,000	10,000	100,000	< 1	17	< 1	< 1	< 1
Butylbenzene, 1-	NA	NA	NA	< 1	4.94	< 1	< 1	< 1
Butylbenzene, sec-	NA	NA	NA	< 1	4.48	< 1	< 1	< 1
Carbon disulfide	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	30,000	4,000	100,000	< 1	1.52	< 1	< 1	< 1
Isopropylbenzene	NA	NA	NA	< 1	19.3	< 1	< 1	< 1
Isopropyltoluene, 4-	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
Methyl tert-butyl ether	NA	NA	NA	-	-	-	-	-
Naphthalene	1,000	20,000	100,000	< 1	< 1	< 1	< 1	< 1
Propylbenzene, 1-	NA	NA	NA	< 1	25.3	< 1	< 1	< 1
Toluene	8,000	4,000	80,000	< 1	< 1	< 1	< 1	< 1
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 1	< 1	< 1	< 1	< 1
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-
Xylenes, total	9,000	500	100,000	< 2	< 2	< 2	< 2	< 2
Figure No.				3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01				
ESS Lab Ref #				01060149-07	01060149-06	01060149-04	01060149-01	01060149-03
Case Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-5**  
**Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GF-7 6/8/2001	GF-8 6/11/2001	GF-9 6/11/2001	GFMWCCO-1 2/10/2006	GFMWCCO-2 2/10/2006
Benzene	2,000	10,000	100,000	< 1	< 1	< 1	< 1.5	20
Butylbenzene, 1-	NA	NA	NA	< 1	< 1	< 1	-	-
Butylbenzene, sec-	NA	NA	NA	< 1	< 1	< 1	-	-
Carbon disulfide	NA	NA	NA	< 1	< 1	< 1	-	-
Ethylbenzene	30,000	4,000	100,000	< 1	< 1	< 1	< 5	< 5
Isopropylbenzene	NA	NA	NA	< 1	< 1	< 1	-	-
Isopropyltoluene, 4-	NA	NA	NA	< 1	< 1	< 1	-	-
Methyl tert-butyl ether	NA	NA	NA	-	-	-	< 1.5	4
Naphthalene	1,000	20,000	100,000	< 1	< 1	< 1	< 5	< 5
Propylbenzene, 1-	NA	NA	NA	< 1	< 1	< 1	-	-
Toluene	8,000	4,000	80,000	< 1	< 1	< 1	< 5	< 5
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 1	< 1	< 1	-	-
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 1	< 1	< 1	-	-
Xylene, 1,2-	NA	NA	NA	-	-	-	< 5	< 5
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	< 10	< 10
Xylenes, total	9,000	500	100,000	< 2	< 2	< 2	< 10	< 10
Figure No.				3-4	3-4	3-4	4-5	4-5
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/06
ESS Lab Ref #				01060149-05	01060149-11	01060149-10	0602173-01	0602173-02
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-5**  
**Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	Method 1 UCL	GFMWCCO-3 2/10/2006	GFMWPPG-1 2/10/2006	GFMWPPG-2 2/10/2006	MW-1 6/8/2001	MW-2 6/12/2001
Benzene	2,000	10,000	100,000	< 1.5	< 1.5	< 1.5	< 1	< 1
Butylbenzene, 1-	NA	NA	NA	-	-	-	< 1	< 1
Butylbenzene, sec-	NA	NA	NA	-	-	-	< 1	< 1
Carbon disulfide	NA	NA	NA	-	-	-	< 1	< 1
Ethylbenzene	30,000	4,000	100,000	< 5	< 5	< 5	< 1	< 1
Isopropylbenzene	NA	NA	NA	-	-	-	< 1	< 1
Isopropyltoluene, 4-	NA	NA	NA	-	-	-	< 1	< 1
Methyl tert-butyl ether	NA	NA	NA	< 1.5	< 1.5	< 1.5	-	-
Naphthalene	1,000	20,000	100,000	< 5	< 5	< 5	< 1	< 1
Propylbenzene, 1-	NA	NA	NA	-	-	-	< 1	< 1
Toluene	8,000	4,000	80,000	< 5	< 5	< 5	< 1	< 1
Trimethylbenzene, 1,2,4-	NA	NA	NA	-	-	-	< 1	< 1
Trimethylbenzene, 1,3,5-	NA	NA	NA	-	-	-	< 1	< 1
Xylene, 1,2-	NA	NA	NA	< 5	< 5	< 5	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	< 10	< 10	< 10	-	-
Xylenes, total	9,000	500	100,000	< 10	< 10	< 10	< 2	< 2
Figure No.	4-5	4-5	4-5	4-5	4-5	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	0602173-03	0602173-04	0602173-05	01060149-02	01060205-04			
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-5**  
**Volatile Organic Compounds in Groundwater**

Analyte	Method 1 GW-2	Method 1 GW-3	UCL	GFMWCCO-4 10/27/2006	GFMWCCO-5 10/27/2006	GFMWCCO-6 10/27/2006
Benzene	2,000	10,000	100,000	16.1	24.7	<1
Butylbenzene, 1-	NA	NA	NA	<1	<1	<1
Butylbenzene, sec-	NA	NA	NA	3.1	<1	<1
Carbon disulfide	NA	NA	NA	<1	<1	<1
Ethylbenzene	30,000	4,000	100,000	<1	<1	<1
Isopropylbenzene	NA	NA	NA	17.4	<1	<1
Isopropyltoluene, 4-	NA	NA	NA	<1	<1	<1
Methyl tert-butyl ether	NA	NA	NA	<1	2.7	<1
Naphthalene	1,000	20,000	100,000	<1	<1	<1
Propylbenzene, 1-	NA	NA	NA	9.3	<1	<1
Toluene	8,000	4,000	80,000	<1	<1	<1
Trimethylbenzene, 1,2,4-	NA	NA	NA	<1	<1	<1
Trimethylbenzene, 1,3,5-	NA	NA	NA	<1	<1	<1
Xylene, 1,2-	NA	NA	NA	<1	1.5	9.3
Xylene, 1,3- and/or 1,4-	NA	NA	NA	<2	3.6	17.7
Xylenes, total	9,000	500	100,000	<3	5.1	27
Figure No.				5	5	5
Original Lab Reference Date:				RAM Status 12/06	RAM Status 12/06	RAM Status 12/06
ESS_Lab Ref #				0610574-01	0610574-02	0610574-03
Case Narrative				yes	yes	yes
QA / QC Section				yes	yes	yes
Data Quality				Presumptive Certainty	Presumptive Certainty	Presumptive Certainty

All units are ug/L.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-6A**  
**Inorganics in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	1A UCL	2A 0-0.5 ft	A2 0.5-1 ft	A3 bottom 2 ft	4A 0-0.5 ft	5A 0-0.5 ft	SB-4 8-12 ft	SB-5 0-0.5 ft	SB-145 0-0.5 ft	SB-146 0-0.5 ft
Arsenic	20	20	200	-	-	-	-	-	7.93	5.46	-	-
Barium	1,000	1,000	10,000	-	-	-	-	-	74.6	430	-	-
Cadmium	2	2	300	-	-	-	-	-	< 0.739	< 0.823	-	-
Chromium	30	30	2,000	-	-	-	-	-	<b>49.3</b>	9.79	-	-
Lead	300	300	3,000	<b>380</b>	<b>1,400</b>	<b>1,600</b>	<b>1,900</b>	<b>650</b>	190	13.1	<b>741</b>	299
Mercury	20	20	300	-	-	-	-	-	< 0.0813	0.105	-	-
Selenium	400	400	8,000	-	-	-	-	-	< 30.3	< 8.23	-	-
Silver	100	100	2,000	-	-	-	-	-	< 0.739	< 0.823	-	-
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-3	3-1	3-1	3-1
Original Lab Reference Date:	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	PH II CSA 8/01	PH II CSA 8/01	RAM Plan 1/03	RAM Plan 1/03
Alpha / ESS Lab Ref #	L0211966-01	L0211966-02	L0211966-01	L0211966-02	L0211966-04	L0211966-05	L0211966-04	L0211966-05	01050324-01	01050324-08	2080161-14	2080161-15
Case Narrative	yes	yes	no	yes	no	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	no	yes	no	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	SB-6 4-8 ft	SB-8 0-0.5 ft	SB-27 0-0.5 ft	SB-28 4-8 ft	SB-30 4-8 ft	SB-30 8-12 ft	SB-45 12-16 ft	SB-135 4-8 ft	SB-149 4-8 ft	SB-151 4-8 ft
Arsenic	20	20	200	6.29	4.34	5.72	4.29	< 3.4	4.1	8.01	-	-
Barium	1,000	1,000	10,000	180	140	35.6	49	27.1	<b>44.6</b>	79.1	-	-
Cadmium	2	2	300	< 0.783	< 0.723	< 0.749	< 0.692	< 0.679	< 0.788	< 0.822	-	-
Chromium	30	30	2,000	11.1	12.8	10.4	7.32	7.63	7.56	<b>31.3</b>	-	-
Lead	300	300	3,000	<b>4,900</b>	<b>663</b>	178	<b>356</b>	94.3	10.9	<b>305</b>	95.7	<b>1,160</b>
Mercury	20	20	300	0.192	0.301	0.493	0.145	0.368	< 0.0794	0.524	-	-
Selenium	400	400	8,000	< 7.83	< 7.23	< 7.49	< 6.92	< 6.79	< 7.88	< 8.22	-	-
Silver	100	100	2,000	< 0.783	< 0.723	< 0.749	< 0.692	< 0.679	< 0.788	< 0.822	-	-
Figure No.	3-2	3-1	3-1	3-2	3-1	3-1	3-2	3-3	3-3	3-2	3-2	3-2
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	RAM Plan 1/03	RAM Plan 1/03
Alpha / ESS Lab Ref #	01050362-07	01050362-05	01050363-01	01060031-09	01060031-08	01050394-12	01060032-06	01060032-06	01060032-06	01060032-06	2080161-24	2080161-26
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

**Table 3-6A**  
**Inorganics in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-146 0.5-4 ft	SB-146 DUP-4 0-0.5 ft	SB-146 DUP-4 0.5-4 ft	SB-147 0-0.5 ft	SB-147 0.5-4 ft	SS-6 0-0.5 ft	SS-7 0-0.5 ft	SS-8 0-0.5 ft	SS-9 0-0.5 ft	SS-10 0-0.5 ft
Arsenic	20	20	200	-	-	-	-	-	-	-	-	-	-
Barium	1,000	1,000	10,000	-	-	-	-	-	-	-	-	-	-
Cadmium	2	2	300	-	-	-	-	-	-	-	-	-	-
Chromium	30	30	2,000	-	-	-	-	-	-	-	-	-	-
Lead	300	300	3,000	325	237	385	2,390	57.5	2,450	877	1,530	948	77.7
Mercury	20	20	300	-	-	-	-	-	-	-	-	-	-
Selenium	400	400	8,000	-	-	-	-	-	-	-	-	-	-
Silver	100	100	2,000	-	-	-	-	-	-	-	-	-	-
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1
Original Lab Reference Date:	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	PH II CSA 9/06				
Alpha / ESS Lab Ref#	2080161-37	2080161-38	2080161-39	2080161-38	2080161-39	2080161-39	2080161-16	2080161-17	0409111-06	0409111-07	0409111-08	0409111-09	0409111-10
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Prescriptive certainty				

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SS-1 0-0.5 ft	SS-2 0-0.5 ft	SS-3 0-0.5 ft	SS-4 0-0.5 ft	SS-5 0-0.5 ft
Arsenic	20	20	200	-	-	-	-	-
Barium	1,000	1,000	10,000	-	-	-	-	-
Cadmium	2	2	300	-	-	-	-	-
Chromium	30	30	2,000	-	-	-	-	-
Lead	300	300	3,000	113	232	224	2,810	3,360
Mercury	20	20	300	-	-	-	-	-
Selenium	400	400	8,000	-	-	-	-	-
Silver	100	100	2,000	-	-	-	-	-
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1
Original Lab Reference Date:	PH II CSA 9/06							
ESS Lab Ref#	0409111-01	0409111-02	0409111-03	0409111-04	0409111-05	0409111-06	0409111-07	0409111-08
Case Narrative	yes							
QA / QC Section	yes							
Data Quality	Prescriptive certainty							

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

Table 3-6B  
Inorganics in Phase 1 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	1B 0-0.5 ft	1C 0-0.5 ft	1D 0-0.5 ft	2B 0-0.5 ft	2C 0-0.5 ft	2D 0-0.5 ft	3B 0-0.5 ft	B3 0.5-1 ft	C5 0.5-1 ft	6B 0-0.5 ft	I-1 0-0.5 ft	I-3 0-0.5 ft	I-4 0-0.5 ft	I-5 0-0.5 ft	I-6 0-0.5 ft		
Arsenic	20	20	200	-	-	-	-	-	-	-	-	-	-	10.1	< 7.49	8.07	< 3.4	21.1		
Barium	1,000	1,000	10,000	-	-	-	-	-	-	-	-	-	-	71	170	85.3	48.6	102		
Cadmium	2	2	300	-	-	-	-	-	-	-	-	-	-	< 0.71	< 0.749	< 0.791	< 0.679	< 0.788		
Chromium	30	30	2,000	-	-	-	-	-	-	-	-	-	-	34.5	24.4	43.1	9.05	43		
Lead	300	300	3,000	430	180	1,200	420	280	350	1,400	460	4,900	270	15.3	2,230	38.8	397	15.1		
Mercury	20	20	300	-	-	-	-	-	-	-	-	-	-	< 0.0713	< 0.0713	< 0.0823	< 0.0658	< 0.0733		
Selenium	400	400	6,000	-	-	-	-	-	-	-	-	-	-	< 7.1	< 7.49	< 7.91	< 6.79	< 7.9		
Silver	100	100	2,000	-	-	-	-	-	-	-	-	-	-	< 0.71	< 0.749	< 0.791	0.686	< 0.788		
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-2	3-2		
Original Lab Reference Date:	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03		
Alpha / ESS Lab Ref #	L0211966-06	L0211966-12	L0211966-17	L0211966-13	L0211966-18	L0211966-19	L0211966-08	L0211966-05	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11	L0211966-11		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
QA/QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM		
Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	1B 0-0.5 ft	1C 0-0.5 ft	1D 0-0.5 ft	2B 0-0.5 ft	2C 0-0.5 ft	2D 0-0.5 ft	3B 0-0.5 ft	B3 0-0.5 ft	C5 0-0.5 ft	6B 0-0.5 ft	I-1 0-0.5 ft	MC-2 0-0.5 ft	MC-3 0-0.5 ft	SB-1 0-0.5 ft	SB-12 8-12 ft	SB-15 4-8 ft	
Arsenic	20	20	200	-	-	-	-	-	-	-	-	-	-	8.42	-	-	-	7.21	8.57	6.82
Barium	1,000	1,000	10,000	-	-	-	-	-	-	-	-	-	-	96.9	-	-	-	54.4	96.8	39.9
Cadmium	2	2	300	-	-	-	-	-	-	-	-	-	-	< 0.757	-	-	-	< 0.871	< 0.796	< 1.08
Chromium	30	30	2,000	-	-	-	-	-	-	-	-	-	-	44.4	-	-	-	6.67	45.1	21.2
Lead	300	300	3,000	370	1,000	2,100	2,300	1,400	920	2,100	2,244	2,000	2,500	3,200	-	-	-	15,100	11.4	104
Mercury	20	20	300	-	-	-	-	-	-	-	-	< 0.0813	-	-	-	-	0.252	< 0.0737	0.108	
Selenium	400	400	8,000	-	-	-	-	-	-	-	-	< 7.58	-	-	-	-	< 8.72	< 39.8	< 10.8	
Silver	100	100	2,000	-	-	-	-	-	-	-	-	< 0.757	-	-	-	-	< 0.871	< 0.796	< 1.08	
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-2	3-2	
Original Lab Reference Date:	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	RAM Plan /03	
Alpha / ESS Lab Ref #	L0211966-14	L0211966-19	L0211966-22	L0211966-15	L0211966-16	L0211966-04	L0211966-10	L0211966-02	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07	L0211966-07		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
QA/QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM		

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

**Table 3-6B**  
**Inorganics in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	1-7 0.5-4 ft	SB-36 0.5-4 ft	SB-48 0.5-4 ft	SB-54 0.5-4 ft	SB-55 0-0.5 ft	SB-118 4-8 ft	SB-122 4-8 ft	SB-122 DUP-1 4-8 ft	SB-124 4-8 ft
Arsenic	20	20	200	< 3.33	4.34	3.79	7.64	6.63	-	-	-	-
Barium	1,000	1,000	10,000	40.5	280	49.4	154	58.4	-	-	-	-
Cadmium	2	2	300	< 0.665	< 0.669	< 0.681	< 0.782	< 0.717	-	-	-	-
Chromium	30	30	2,000	4.1	5.67	7.36	8.94	9.57	-	-	-	-
Lead	300	300	3,000	471	1,180	257	588	231	76.3	422	269	114
Mercury	20	20	300	< 0.687	0.257	0.656	3	0.275	-	-	-	-
Selenium	400	400	8,000	< 6.65	< 6.69	< 6.81	< 7.82	< 7.17	-	-	-	-
Silver	100	100	2,000	< 0.665	< 0.669	< 0.681	1	< 0.717	-	-	-	-

Figure No.

Original Lab Reference Date:	PH II CSA 8/01											
Alpha / ESS Lab Ref #	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05	01080092-05
Case Narrative	yes											
QA / QC Section	yes											
Data Quality	Pre-CAM											

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-20 0-0.5 ft	SB-130 4-8 ft	SB-133 4-8 ft	SB-134 4-8 ft	SB-136 4-8 ft	SB-183 4-6 ft
Arsenic	20	20	200	8.05	-	-	-	-	-
Barium	1,000	1,000	10,000	180	-	-	-	-	-
Cadmium	2	2	300	< 0.702	-	-	-	-	-
Chromium	30	30	2,000	16.2	-	-	-	-	-
Lead	300	300	3,000	1,750	609	5,160	19.3	8	847
Mercury	20	20	300	1.44	-	-	-	-	-
Selenium	400	400	8,000	< 7.02	-	-	-	-	-
Silver	100	100	2,000	< 0.702	-	-	-	-	-

Figure No.

Original Lab Reference Date:	PH II CSA 8/01										
Alpha / ESS Lab Ref #	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02	01050394-02
Case Narrative	yes										
QA / QC Section	yes										
Data Quality	Pre-CAM										

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

**Table 3-6C**  
**Inorganics In Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	1E 0-0.5 ft 11/21/2002	E2 0.5-1 ft 2/8/2005	CCO-1 0-5 ft 2/8/2005	CCO-2 0-5 ft 2/8/2005	CCO-3 0-5 ft 2/8/2005	CCO-4 0-5 ft 2/8/2005	CCO-5 0-5 ft 2/8/2005	CCO-6 0-5 ft 2/8/2005	CCO-12 0-5 ft 2/8/2005	CCO-13 0-5 ft 2/8/2005	CCO-14 0-5 ft 2/8/2005
Arsenic	20	20	200	-	2.6	5	8.9	3.3	3.1	3.9	6.6	4.2	4.8
Barium	1,000	10,000	10,000	-	85	90	89	75	48	96	150	110	140
Cadmium	2	2	300	-	< 0.54	< 0.54	0.74	< 0.54	1.6	1.1	< 0.57	0.68	0.91
Chromium	30	30	2,000	-	30	< 11	12	11	< 11	14	11	14	13
Lead	300	300	1,000	960	290	170	780	310	360	310	660	350	840
Mercury	20	20	300	-	0.15	0.23	0.49	0.11	0.75	0.84	1.7	0.82	1.9
Selenium	400	400	8,000	-	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 12
Silver	100	100	2,000	-	< 5.4	< 5.4	< 5.3	< 5.4	< 5.7	< 5.6	< 5.7	< 5.6	< 6.1
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1
Original Lab Reference Date:	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
Alpha / ESS / Groundwater Analytical Lab Ref #	L0211966-20	L0212056-06	80825-21	80825-22	80825-23	80825-24	80825-25	80825-25	80825-26	80825-33	80825-34	80825-35	80825-35
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty
Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-7 0-0.5 ft 5/19/2005	CCO-7A 0-0.5 ft 5/19/2005	CCO-7B 0-0.5 ft 5/19/2005	CCO-7C 0-0.5 ft 5/19/2005	CCO-8 0-0.5 ft 2/8/2005	CCO-9 0-0.5 ft 2/8/2005	CCO-10 0-0.5 ft 2/8/2005	CCO-11 0-0.5 ft 2/8/2005	GFTWW <sup>1</sup>	PPG-1	PPG-2 0-0.5 ft 2/8/2005
Arsenic	20	20	200	8.6	-	-	4.2	10	12	4.3	9.5	1.9	2.3
Barium	1,000	1,000	10,000	460	-	-	110	210	180	80	185	81	100
Cadmium	2	2	300	4	-	-	< 0.59	1.3	1.8	0.65	< 0.67	< 0.52	< 0.57
Chromium	30	30	2,000	20	-	-	17	19	12	11	15.6	< 10	< 11
Lead	300	300	2,100	1,940	1,270	230	1,300	470	310	408	3,300	420	
Mercury	20	20	300	0.85	-	-	0.59	1.9	0.57	6	4.32	0.059	0.12
Selenium	400	400	8,000	< 12	-	-	< 12	< 11	< 11	< 6.7	< 10	< 11	
Silver	100	100	2,000	< 5.9	-	-	< 5.8	< 6.1	< 5.6	< 5.4	< 0.67	< 5.2	< 5.7
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1
Original Lab Reference Date:	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #	80825-27	80505288-19	80505288-20	80505288-21	80825-29	80825-30	80825-31	80825-32	80601283-04	80825-38	80825-39		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

Table 3-6C  
Inorganics in Phase 2 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-15	GFTWB	GFTWE <sup>1</sup>	GFTWN	GFTWS <sup>1</sup>	PPG-8	PPG-9	PPG-10	PPG-11	PPG-12	PPG-13
			0-5 ft	1/28/2005	1/25/2006	1/25/2006	1/25/2006	2/9/2005	2/9/2005	2/9/2005	2/9/2005	2/9/2005	2/9/2005
Arsenic	20	20	200	5	< 6.8	8.2	< 6.5	1.3	3	10	5.6	9.1	5.9
Barium	1,000	10,000	85	68.2	93.2	93.6	62.6	91	86	210	320	72	67
Cadmium	2	2	300	< 0.58	< 0.71	< 0.68	< 0.65	< 0.63	< 0.57	< 5.3	<b>5.6</b>	0.83	0.56
Chromium	30	30	2,000	13	21.5	11.1	13	10.1	< 11	19	15	<b>92</b>	16
Lead	300	300	1,100	128	<b>302</b>	<b>731</b>	194	220	<b>540</b>	<b>1,800</b>	<b>1,100</b>	170	150
Mercury	20	20	300	0.29	0.476	0.89	0.232	0.75	0.19	0.063	0.3	8	0.22
Selenium	400	400	8,000	< 12	< 6.8	< 7.1	< 6.5	< 6.3	< 11	< 11	< 12	< 11	< 11
Silver	100	100	2,000	< 5.8	< 0.68	< 0.71	< 0.65	< 0.63	< 5.7	< 5.3	< 6.1	< 5.8	< 5.5
Figure No.	3-1	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-1	3-1	3-1	3-1	3-1
Original Lab Reference Date:	RAM Plan 6/05	IRA 3/06	RAM Plan 6/05										
Alpha / ESS / Groundwater Analytical Lab Ref #	80855-37	80855-37	80855-37	80855-37	80855-37	80855-37	80855-37	80855-15	80855-15	80855-16	80855-17	80855-17	80855-17
Case Narrative	yes												
QA / QC Section	yes												
Data Quality	Presumptive certainty												
Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-3	PPG-4	PPG-5	PPG-6	PPG-7	PPG-16	PPG-17	PPG-17	SB-22	SB-22	SB-34
			0-5 ft	0-3 ft	0-3 ft	0-3 ft	0-3 ft	8-12 ft					
Arsenic	20	20	200	< 1.1	< 7.3	< 6.6	< 6.9	6	< 5.9	< 5.8	5.52	4.06	5.96
Barium	1,000	10,000	83	39.2	49.8	33.6	130	8.9	11.4	78.3	84.1	43.4	39.5
Cadmium	2	2	300	< 0.57	< 0.73	< 0.66	< 0.69	0.61	< 0.59	< 0.58	< 0.739	< 0.637	< 0.682
Chromium	30	30	2,000	13	7.7	8.1	4.9	18	4	3.9	8.02	7.73	11.7
Lead	300	300	35	83.2	229	<b>3,760</b>	<b>9,900</b>	22.8	14.8	<b>3,290</b>	<b>4,430</b>	172	65
Mercury	20	20	300	0.1	0.051	0.087	0.05	1.5	< 0.035	0.168	0.41	0.303	< 0.0749
Selenium	400	400	8,000	< 11	< 7.3	< 6.6	< 6.9	< 11	< 5.9	< 7.39	< 6.37	< 6.82	< 7.3
Silver	100	100	2,000	< 5.7	< 0.73	< 0.66	< 0.69	< 5.6	< 0.59	< 0.58	< 0.739	< 0.637	< 0.682
Figure No.	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-3	3-3	3-1
Original Lab Reference Date:	RAM Plan 8/05	PH II CSA B01	PH II CSA B01	PH II CSA B01									
Alpha / ESS / Groundwater Analytical Lab Ref #	80825-40	80825-40	80502169-17	80502169-18	80502169-19	80825-14	80502288-16	80502288-17	1050394-03	1050394-04	1050394-06	1050394-09	1050394-09
Case Narrative	yes												
QA / QC Section	yes												
Data Quality	Presumptive certainty	Pre-CAM	Pre-CAM	Pre-CAM									

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-6C**  
**Inorganics in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-14 0-5 ft	PPG-15 8-12 ft	SB-62 0-0.5 ft	SB-66 4-8 ft	SB-119 4-8 ft	SB-120 8-12 ft	SB-190 8-12 ft	SB-191 8-12 ft	SB-192 8-12 ft	SB-193 8-12 ft
Arsenic	20	20	200	18	1.9	8.38	5.29	-	-	-	-	-
Barium	1,000	10,000	160	22	184	24.5	-	-	-	-	-	-
Cadmium	2	2	300	1.3	0.72	< 0.758	< 0.71	-	-	-	-	-
Chromium	30	30	2,000	16	14	33.8	9.11	-	-	-	-	-
Lead	300	300	3,000	1,000	46	488	48.1	98.2	809	471	757	187
Mercury	20	20	300	1.1	0.95	0.572	0.0814	-	-	-	-	-
Selenium	400	400	8,000	< 11	< 11	< 7.58	< 7.1	-	-	-	-	-
Silver	100	100	2,000	< 5.7	< 5.3	< 0.758	< 0.71	-	-	-	-	-

Figure No.

Original Lab Reference Date:

Alpha / ESS / Groundwater Analytical Lab Ref #

Case Narrative

QA / QC Section

Data Quality

Presumptive certainty Presumptive certainty Pre-CAM Pre-CAM

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	SB-58 4-8 ft	SB-59 12-16 ft	TP-3 comp 0-0.5 ft	TP-A <sup>2</sup> 5-10 ft	TP-B <sup>2</sup> 5-10 ft	TP-C <sup>2</sup> 5-10 ft	TP-D <sup>2</sup> 5-10 ft	TP-E <sup>2</sup> 5-10 ft
Arsenic	20	20	200	< 4.12	12.6	-	< 6.5	< 10.2	< 6.4	< 6.8
Barium	1,000	10,000	33.1	57.4	-	170	201	95.9	113	179
Cadmium	2	2	300	< 0.823	< 0.782	-	< 0.65	3.92	11.8	< 0.68
Chromium	30	30	2,000	15.9	11.8	-	10.3	20.6	5.4	9.8
Lead	300	300	14.5	163	546	1,290	1,070	141	226	1,200
Mercury	20	20	< 0.0823	0.476	-	0.799	6.51	0.771	0.642	5.51
Selenium	400	400	< 8.23	< 7.82	-	< 6.5	< 10.2	< 6.4	< 6.8	< 6.4
Silver	100	100	2,000	< 0.823	< 0.782	-	< 0.65	< 1.02	< 0.64	< 0.68

Figure No.

Original Lab Reference Date:

ESS / Groundwater Analytical Lab Ref #

Case Narrative

QA / QC Section

Data Quality

Presumptive certainty Presumptive certainty

All units are mg/kg.

= sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

Table 3-6D  
Inorganics in Phase 3 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	GFPH3-SS1 0-0.3 ft	GFPH3-SS2 0-0.3 ft	GFPH3-SS3 0-0.3 ft	GFPH3-SS4 0-0.3 ft	GFPH3-SS5 0-0.3 ft	GFPH3-SS6 0-0.3 ft	GFPH3-SS7 0-0.3 ft	SB-117 4-8 ft	SB-203/70 7/25/2002	SB-204 8-12 ft	SB-205 8-12 ft
	UCL	UCL	2/2/2006	2/2/2006	2/2/2006	2/2/2006	2/2/2006	2/2/2006	2/2/2006	7/25/2002	10/9/2002	10/9/2002	10/9/2002
Arsenic	20	20	200	-	-	-	-	-	-	-	-	-	-
Barium	1,000	1,000	10,000	-	-	-	-	-	-	-	-	-	-
Cadmium	2	2	300	-	-	-	-	-	-	-	-	-	-
Chromium	30	30	2,000	-	-	-	-	-	-	-	-	-	-
Lead	300	300	3,000	<b>623</b>	<b>958</b>	<b>1,030</b>	<b>1,250</b>	<b>226</b>	<b>61.7</b>	<b>134</b>	<b>14.8</b>	<b>442</b>	<b>43.1</b>
Mercury	20	20	300	-	-	-	-	-	-	-	-	-	-
Selenium	400	400	8,000	-	-	-	-	-	-	-	-	-	-
Silver	100	100	2,000	-	-	-	-	-	-	-	-	-	-
Figure No.			3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:			PH II CSA 8/06	PH II CSA 8/06	PH II CSA 8/06								
ESS Lab Ref #			06020336-01	06020336-02	06020336-03	06020336-04	06020336-05	06020336-06	06020336-07	2080/61-32	2100/160-01	2100/160-02	2100/160-03
Case Narrative			yes	yes	yes								
QA / QC Section			yes	yes	yes								
Data Quality			Presumptive certainty	Presumptive certainty	Presumptive certainty								

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	SB-206 4-6 ft	SB-206 8-10 ft	SB-208 8 ft	GFPH3-SS8 0-0.3 ft	I-100 4-8 ft	I-101 4-8 ft	I-102 4-8 ft	I-108 4-8 ft	SB-42 8-12 ft	SB-70 8-12 ft	6/1/2001
	UCL	UCL	10/9/2002	10/9/2002	10/9/2002	2/2/2006	10/10/2002	10/10/2002	10/10/2002	10/10/2002	5/30/2001	5/30/2001	5/30/2001
Arsenic	20	20	200	-	-	-	-	-	-	-	-	-	-
Barium	1,000	1,000	10,000	-	-	-	-	-	-	-	< 13.9	109	
Cadmium	2	2	300	-	-	-	-	-	-	-	< 0.694	< 0.736	
Chromium	30	30	2,000	-	-	-	-	-	-	-	9.79	9.25	
Lead	300	300	3,000	<b>28.7</b>	<b>3,270</b>	<b>18.6</b>	<b>296</b>	<b>166</b>	<b>17.8</b>	<b>960</b>	<b>5,340</b>	<b>13.3</b>	<b>1,680</b>
Mercury	20	20	300	-	-	-	-	-	-	-	< 0.0694	0.8	
Selenium	400	400	8,000	-	-	-	-	-	-	-	< 6.94	< 7.36	
Silver	100	100	2,000	-	-	-	-	-	-	-	< 0.694	< 0.736	
Figure No.			3-2	3-3	3-3	3-8	3-8	3-2	3-2	3-2	3-2	3-2	3-2
Original Lab Reference Date:			RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 8/06	RAM Plan 1/03	RAM Plan 1/03	RAM Plan 1/03				
ESS Lab Ref #			2100/160-03	2100/160-05	2100/160-07	0602036-08	02/100/169-01	02/100/169-03	02/100/169-04	02/100/169-02	01050406-01	01060092-02	PH II CSA 8/01
Case Narrative			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality			Pre-CAM	Pre-CAM	Pre-CAM	Presumptive certainty	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

Shaded value exceeds UCL.

**Table 3-7A**  
**Semi-Volatile Organic Compounds in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-4 8-12 ft	SB-5 8-12 ft	SB-6 4-8 ft	SB-27 0-0.5 ft	SB-28 0.5-4 ft	SB-30 8-12 ft	5/29/2001
Acenaphthene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Acenaphthylene	100	100	10,000	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Anthracene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	< 0.368	1.78	< 0.39	
Benz(a)anthracene	7	7	3,000	< 0.407	< 0.412	< 0.401	0.96	<b>7.56</b>	< 0.39	
Benzo(a)pyrene	2	2	300	< 0.407	< 0.412	< 0.401	0.866	<b>7.15</b>	< 0.39	
Benzo(b)fluoranthene	7	7	3,000	< 0.407	< 0.412	< 0.401	0.938	<b>7.74</b>	< 0.39	
Benzo(ghi)perylene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	0.398	2.92	< 0.39	
Benzo(k)fluoranthene	70	70	10,000	< 0.407	< 0.412	< 0.401	0.91	6.94	< 0.39	
Chrysene	7	7	400	< 0.407	< 0.412	< 0.401	1.01	6.56	< 0.39	
Dibenz(ah)anthracene	0.7	0.7	300	< 0.407	< 0.412	< 0.401	< 0.368	<b>1.57</b>	< 0.39	
Fluoranthene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	2.02	<b>14.8</b>	< 0.39	
Fluorene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.407	< 0.412	< 0.401	0.386	<b>2.87</b>	< 0.39	
Methylnaphthalene, 2-	500	500	10,000	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Naphthalene	40	500	10,000	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Phenanthrene	1,000	100	10,000	< 0.407	< 0.412	< 0.401	1.61	<b>6.04</b>	< 0.39	
Pyrene	1,000	1,000	10,000	< 0.407	< 0.412	< 0.401	1.98	<b>12.3</b>	< 0.39	
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.407	< 0.412	< 0.401	1.1	<b>&lt; 0.389</b>	< 0.39	
Butylbenzyl phthalate	NA	NA	NA	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	< 0.39	
Carbazole	NA	NA	NA	-	-	-	-	-	-	
Dibenzofuran	NA	NA	NA	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	<b>&lt; 0.39</b>	
Di-n-octyl phthalate	NA	NA	NA	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	<b>&lt; 0.39</b>	
Methylphenol, 3- and/or 4-	NA	NA	NA	< 0.407	< 0.412	< 0.401	< 0.368	< 0.389	<b>&lt; 0.39</b>	
Figure No.				3-4	3-4	3-4	3-4	<b>3-4</b>	<b>3-4</b>	
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	
ESS Lab Ref #				01050324-01	01050324-04	01050324-05	01050363-01	01050394-11	01050394-12	
Case Narrative				yes	yes	yes	yes	yes	yes	
QA / QC Section				yes	yes	yes	yes	yes	yes	
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

**Table 3-7A**  
**Semi-Volatile Organic Compounds in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-45 4-8 ft 5/30/2001	SB-100 0-4 ft 7/25/2002	SB-141 0-4 ft 7/24/2002	SB-142 0-4 ft 7/24/2002	SB-164 0-4 ft 9/25/2002
Acenaphthene	1,000	1,000	10,000	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Acenaphthylene	100	100	10,000	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Anthracene	1,000	1,000	10,000	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Benz(a)anthracene	7	7	3,000	< 0.4	2.37	0.878	< 0.351	1.12
Benzo(a)pyrene	2	2	300	< 0.4	2.12	0.864	< 0.351	1.33
Benzo(b)fluoranthene	7	7	3,000	< 0.4	< 1.79	0.564	< 0.351	1.18
Benzo(ghi)perylene	1,000	1,000	10,000	< 0.4	< 1.79	0.616	< 0.351	1.13
Benzo(k)fluoranthene	70	70	10,000	< 0.4	< 1.79	0.685	< 0.351	1.54
Chrysene	7	7	400	< 0.4	2.54	0.904	< 0.351	1.31
Dibenz(ah)anthracene	0.7	0.7	300	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Fluoranthene	1,000	1,000	10,000	< 0.4	5.03	1.78	< 0.351	1.94
Florene	1,000	1,000	10,000	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.4	< 1.79	0.522	< 0.351	0.697
Methylnaphthalene, 2-	500	500	10,000	< 0.4	< 1.79	< 0.366	< 0.351	< 0.409
Naphthalene	40	500	10,000	< 0.4	< 1.79	< 0.366	< 0.351	0.573
Phenanthrene	1,000	100	10,000	< 0.4	4.09	1.17	< 0.351	1.34
Pyrene	1,000	1,000	10,000	< 0.4	4.89	1.55	< 0.351	2.2
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.4	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	< 0.4	-	-	-	-
Carbazole	NA	NA	NA	-	-	-	-	-
Dibenzofuran	NA	NA	NA	< 0.4	-	-	-	-
Di-n-octyl phthalate	NA	NA	NA	< 0.4	-	-	-	-
Methyphenol, 3- and/or 4-	NA	NA	NA	< 0.4	-	-	-	-
				3.4	3-4	3-4	3-4	3-4
Figure No.								
Original Lab Reference Date:				PH II CSA 8/01	RAM Plan Mod. 11/02			
ESS Lab Ref #				01050406-03	02080038-17	02080038-09	02080038-10	02090336-02
Case Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

**Table 3-7B**  
**Semi-Volatile Organic Compounds In Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	1-1 8-12 ft	1-2 12-16 ft	1-3 4-8 ft	1-4 4-8 ft	1-5 4-8 ft	1-6 4-8 ft	1-7 8-12 ft	1-8 12-16 ft
				6/2/2001	6/2/2001	6/2/2001	6/2/2001	6/2/2001	6/2/2001	6/2/2001	6/2/2001
Acenaphthene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Acenaphthylene	100	100	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Anthracene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Benz(a)anthracene	7	7	3,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Benzo(a)pyrene	2	2	300	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Benzo(b)fluoranthene	7	7	3,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Benzo(ghi)perylene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Benzo(k)fluoranthene	70	70	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Chrysene	7	7	400	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Dibenz(ah)anthracene	0.7	0.7	300	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Fluoranthene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Fluorene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Methylnaphthalene, 2-	500	500	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Naphthalene	40	500	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Phenanthrene	1,000	100	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Pyrene	1,000	1,000	10,000	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.354	< 0.386	5.07	2.67	< 0.392	< 0.392	< 0.41	< 0.401
Butylbenzyl phthalate	NA	NA	NA	< 0.354	< 0.386	2.56	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Carbazole	NA	NA	NA	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	NA	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Di-n-octyl phthalate	NA	NA	NA	< 0.354	< 0.386	1	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Methylphenol, 3- and/or 4-	NA	NA	NA	< 0.354	< 0.386	< 0.367	< 0.346	< 0.392	< 0.392	< 0.41	< 0.401
Figure No.				3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01060044-09	01060044-08	01060044-07	01060044-05	01060044-04	01060044-01	01060044-06	01060044-02	yes	yes	yes
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-7B**  
**Semi-Volatile Organic Compounds in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-12 8-12 ft	SB-15 4-8 ft	SB-18 0-0.5 ft	SB-23 0.5-4 ft	SB-26 8-12 ft	SB-47 0.5-4 ft	SB-48 0.5-4 ft	SB-51 8-12 ft
				5/24/2001	5/24/2001	5/25/2001	5/25/2001	5/30/2001	5/30/2001	5/30/2001	5/30/2001
Acenaphthene	1,000	1,000	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Acenaphthylene	100	100	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Anthracene	1,000	1,000	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	0.615	0.773	< 1.19
Benz(a)anthracene	7	7	3,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	1.54	1.19	< 1.19
Benzo(a)pyrene	2	2	300	< 0.407	< 0.547	< 0.36	0.409	< 0.393	1.66	1.05	< 1.19
Benzo(b)fluoranthene	7	7	3,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	1.54	0.977	< 1.19
Benzo(ghi)perylene	1,000	1,000	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	0.879	0.441	< 1.19
Benzo(k)fluoranthene	70	70	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	1.37	1.05	< 1.19
Chrysene	7	7	400	< 0.407	< 0.547	< 0.36	0.446	< 0.393	1.49	1.12	< 1.19
Dibenz(ah)anthracene	0.7	0.7	300	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	0.431	< 0.347	< 1.19
Fluoranthene	1,000	1,000	10,000	< 0.407	< 0.547	0.643	0.518	< 0.393	2.37	2.16	< 1.19
Florene	1,000	1,000	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	0.368	< 1.19
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	0.747	0.416	< 1.19
Methylnaphthalene, 2-	500	500	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Naphthalene	40	500	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Phenanthrene	1,000	100	10,000	< 0.407	< 0.547	0.364	0.786	< 0.393	2.02	2.14	< 1.19
Pyrene	1,000	1,000	10,000	< 0.407	< 0.547	0.436	0.935	< 0.393	2.34	1.75	< 1.19
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Butylbenzyl phthalate	NA	NA	NA	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Carbazole	NA	NA	NA	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	NA	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Di-n-octyl phthalate	NA	NA	NA	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	< 1.19
Methylphenol, 3- and/or 4-	NA	NA	NA	< 0.407	< 0.547	< 0.36	< 0.358	< 0.393	< 0.36	< 0.347	1.86
Figure No.				3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 801	PH II CSA 801	PH II CSA 801	PH II CSA 801	PH II CSA 801	PH II CSA 801	PH II CSA 801	PH II CSA 801
ESS Lab Ref #	01050362-04	01050362-01	01050394-02	01050363-02	01050363-03	01050406-04	01050406-07	01050406-08	yes	yes	yes
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section											
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-7B**  
**Semi-Volatile Organic Compounds in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	Method 1 UCL	SB-55 0-0.5 ft	SB-124 0-4 ft	SB-138 0-4 ft	SB-139 0-4 ft	SB-140 0-4 ft	SB-160 0-4 ft	SB-161 0-4 ft	SB-173 0-4 ft
Acenaphthene	1,000	1,000	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	< 0.356	< 0.366	< 0.365
Acenaphthylene	100	100	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	< 0.356	< 0.366	< 0.365
Anthracene	1,000	1,000	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	0.678	0.458	< 0.365
Benz(a)anthracene	7	7	3,000	0.756	0.561	0.54	< 0.358	< 0.355	2.03	1.56	< 0.365
Benz(a)pyrene	2	2	300	0.789	0.505	0.743	< 0.358	< 0.355	2.19	1.77	< 0.365
Benz(b)fluoranthene	7	7	3,000	0.776	0.425	0.468	< 0.358	< 0.355	1.77	1.2	0.463
Benzo(ghi)perylene	1,000	1,000	10,000	0.454	< 0.362	0.623	< 0.358	< 0.355	0.879	0.644	< 0.365
Benzo(k)fluoranthene	70	70	10,000	0.658	0.392	0.501	< 0.358	< 0.355	2.08	1.66	< 0.365
Chrysene	7	7	400	0.803	0.552	0.591	< 0.358	< 0.355	2.08	1.63	< 0.365
Dibenz(ah)anthracene	0.7	0.7	300	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	0.371	< 0.366	< 0.365
Fluoranthene	1,000	1,000	10,000	1.48	1.28	0.779	< 0.358	< 0.355	3.9	2.45	0.462
Fluorene	1,000	1,000	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	< 0.356	< 0.366	< 0.365
Indeno(1,2,3-cd)pyrene	7	7	3,000	0.383	< 0.362	0.498	< 0.358	< 0.355	0.86	0.589	< 0.365
Methylnaphthalene, 2-	500	500	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	< 0.356	< 0.366	< 0.365
Naphthalene	40	500	10,000	< 0.366	< 0.362	< 0.355	< 0.358	< 0.355	< 0.356	< 0.366	< 0.365
Phenanthrene	1,000	100	10,000	0.864	1.13	0.52	< 0.358	< 0.355	2.52	1.65	< 0.365
Pyrene	1,000	1,000	10,000	1.66	1.07	0.844	< 0.358	< 0.355	3.82	2.94	0.387
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.366	-	-	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	< 0.366	-	-	-	-	-	-	-
Carbazole	NA	NA	NA	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	NA	< 0.366	-	-	-	-	-	-	-
Di-n-octyl phthalate	NA	NA	NA	< 0.366	-	-	-	-	-	-	-
Methylphenol, 3- and/or 4-	NA	NA	NA	< 0.366	-	-	-	-	-	-	-
				3.4	3.4	3-4	3.4	3.4	3-4	3-4	3-4
Figure No.				PH II CSA 8/01	RAM Plan Mod. 11/02						
Original Lab Reference Date:				01060031-01	02080038-02	02080038-06	02080038-07	02080038-08	02090092-01	02090092-02	02090270-04
ESS Lab Ref #				yes	yes	yes	yes	yes	yes	yes	yes
Case Narrative				yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM
Data Quality											

All units are mg/kg.  
 NA = not applicable.

- = sample not analyzed for this compound / constituent.  
 Value = concentration exceeds Method 1 standard.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	CCO-1 0-5 ft 2/8/2005	CCO-2 0-5 ft 2/8/2005	CCO-3 0-5 ft 2/8/2005	CCO-4 0-5 ft 2/8/2005	CCO-5 0-5 ft 2/8/2005	CCO-6 0-5 ft 2/8/2005	CCO-7 0-5 ft 2/8/2005	CCO-8 0-5 ft 2/8/2005
Acenaphthene	1,000	1,000	10,000	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	9.2	< 3.6	0.84
Acenaphthylene	100	100	10,000	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 3.6	< 3.6	< 0.38
Anthracene	1,000	1,000	10,000	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	21	2.9	2.3
Benz(a)anthracene	7	7	3,000	0.96	0.48	0.81	< 0.35	34	9	4.6	0.44
Benz(a)pyrene	2	2	300	0.86	0.48	0.84	< 0.35	29	9.4	4.2	1.3
Benz(b)fluoranthene	7	7	3,000	0.98	0.66	1.1	< 0.35	34	11	5.8	1.6
Benz(ghi)perylene	1,000	1,000	10,000	0.55	< 0.35	< 0.35	< 0.35	17	8.5	1	2.1
Benz(k)fluoranthene	70	70	10,000	< 0.35	< 0.35	0.39	< 0.35	13	3.5	2	0.71
Chrysene	7	7	400	0.95	0.48	0.9	< 0.35	30	8.2	4.6	1.3
Dibenz(ah)anthracene	0.7	0.7	300	< 0.35	< 0.35	< 0.35	< 0.35	4.9	< 3.6	< 0.38	-
Fluoranthene	1,000	1,000	10,000	1	1	1.7	< 0.35	81	18	10	2.4
Fluorene	1,000	1,000	10,000	< 0.35	< 0.35	< 0.35	< 0.35	10	< 3.6	0.83	< 0.38
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.35	< 0.35	< 0.35	< 0.35	18	6.4	1	0.43
Methylnaphthalene, 2-	500	500	10,000	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.35	< 0.35	< 0.35	< 0.35	< 3.6	< 3.6	< 0.38	-
Phenanthrene	1,000	100	10,000	0.39	0.7	1.1	< 0.35	73	11	9.1	1.5
Pyrene	1,000	1,000	10,000	1.4	0.71	1.4	< 0.35	63	16	7.8	1.8
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	-	-	-
Carbazole	NA	NA	NA	< 0.35	< 0.35	< 0.35	< 0.35	11	< 3.6	0.92	< 0.38
Dibenzofuran	NA	NA	NA	< 0.35	< 0.35	< 0.35	< 0.35	5.1	< 3.6	0.49	< 0.38
Di-n-octyl phthalate	NA	NA	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 3.6	< 3.6	< 0.38	< 0.38
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	-	-	-
Figure No.				3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:				RAM Plan 6/05							
ESS / Groundwater Analytical Lab Ref #				080825-22	080825-23	080825-24	080825-25	080825-26	080825-27	080825-29	
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	CCO-9 0-5 ft	CCO-10 0-5 ft	CCO-11 0-5 ft	CCO-12 0-5 ft	CCO-13 0-5 ft	CCO-14 0-5 ft	CCO-15 0-5 ft	GFTWB <sup>1</sup> 10 ft 1/25/2006
				2/8/2005	2/8/2005	2/8/2005	2/8/2005	2/8/2005	2/8/2005	2/8/2005	2/8/2005
Acenaphthene	1,000	1,000	10,000	0.8	0.77	< 0.36	< 0.38	< 3.6	1.6	< 0.36	< 0.65
Acenaphthylene	100	100	10,000	< 0.38	0.37	< 0.36	< 0.38	< 3.6	< 2	< 0.36	< 0.65
Anthracene	1,000	1,000	10,000	1.5	2	< 0.36	0.5	2.1	2.9	0.38	< 0.65
Benz(a)anthracene	7	7	3,000	4.4	5.4	0.67	1.7	11	6.1	1.6	< 0.65
Benzo(a)pyrene	2	2	300	4.2	5.8	0.66	1.7	17	6.4	1.8	< 0.65
Benzo(b)fluoranthene	7	7	3,000	6	6.8	1	1.9	16	7	2.1	< 0.65
Benzo(ghi)perylene	1,000	1,000	10,000	0.97	2.8	< 0.36	1	11	4.9	1.1	< 0.65
Benzo(k)fluoranthene	70	70	10,000	2	2.4	< 0.36	0.66	6	2.4	0.68	< 0.65
Chrysene	7	7	400	4.7	5.5	0.69	1.6	9.9	5.9	1.5	< 0.65
Dibenz(ah)anthracene	0.7	0.7	300	< 0.38	0.89	< 0.36	< 0.38	3.4	< 2	< 0.36	< 0.65
Fluoranthene	1,000	1,000	10,000	10	11	1.6	3.3	11	14	2.9	< 0.65
Fluorene	1,000	1,000	10,000	0.63	0.73	< 0.36	< 0.38	< 3.6	1.4	< 0.36	< 0.65
Indeno(1,2,3-cd)pyrene	7	7	3,000	0.93	3.3	< 0.36	0.96	11	3.9	1	< 0.65
Methylnaphthalene, 2-	500	500	10,000	-	-	-	-	-	-	-	< 0.65
Naphthalene	40	500	10,000	< 0.38	< 0.7	< 0.36	< 0.38	< 3.6	1.1	< 0.36	0.69
Phenanthrene	1,000	100	10,000	8.9	8.9	1.4	2.1	5.7	14	1.6	< 0.611
Pyrene	1,000	1,000	10,000	7.8	9.5	1.1	2.8	11	12	2.6	< 0.0611
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	-	-	-
Carbazole	NA	NA	NA	0.62	1.1	< 0.36	< 0.38	< 3.6	1.7	< 0.36	-
Dibenzofuran	NA	NA	NA	< 0.38	0.55	< 0.36	< 0.38	< 3.6	1.2	< 0.36	-
Di-n-octyl phthalate	NA	NA	NA	< 0.38	0.52	< 0.36	< 0.38	< 3.6	< 2	< 0.36	-
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	-	-	-
				3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-5
Figure No.				RAM Plan 6/05							
Original Lab Reference Date:				080825-31	080825-32	080825-33	080825-34	080825-35	080825-37	080825-37	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #				yes	RAM Plan 6/05						
Case Narrative				yes	RAM Plan 6/05						
QA / QC Section				Presumptive certainty	RAM Plan 6/05						
Data Quality											RAM Plan 6/05

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

Table 3-7C

## Semi-Volatile Organic Compounds in Phase 2 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	GFTWE <sup>1</sup> 9 ft	GFTWN <sup>1</sup> 9 ft	GFTWS <sup>1</sup> 9 ft	GFTWW <sup>1</sup> 9 ft	PPG-1 0-5 ft	PPG-2 0-5 ft	PPG-3 0-5 ft	PPG-4 0-5 ft
			1/25/2006	1/25/2006	1/25/2006	1/25/2006	2/8/2005	2/8/2005	2/8/2005	2/14/2005
Acenaphthene	1,000	1,000	10,000	< 0.64	< 0.6	< 0.61	< 0.63	< 0.34	< 0.35	< 0.36
Acenaphthylene	100	100	10,000	< 0.64	< 0.6	< 0.61	< 0.63	< 0.34	< 0.35	< 0.36
Anthracene	1,000	1,000	10,000	< 0.64	< 0.6	1.31	< 0.63	< 0.34	0.45	< 0.36
Benz(a)anthracene	7	7	3,000	< 0.64	1.43	4.98	< 0.63	< 0.34	0.73	0.39
Benz(a)pyrene	2	2	300	< 0.64	1.49	7.72	< 0.63	< 0.34	0.66	< 0.36
Benz(b)fluoranthene	7	7	3,000	< 0.64	1.26	6.57	< 0.63	< 0.34	0.78	0.41
Benz(ghi)perylene	1,000	1,000	10,000	< 0.64	1	6.12	< 0.63	< 0.34	< 0.35	< 0.36
Benz(k)fluoranthene	70	70	10,000	< 0.64	1.16	3.37	< 0.63	< 0.34	< 0.35	< 0.36
Chrysene	7	7	400	< 0.64	1.33	4.86	< 0.63	< 0.34	0.71	0.43
Dibenz(ah)anthracene	0.7	0.7	300	< 0.64	< 0.6	1.82	< 0.63	< 0.34	< 0.35	< 0.36
Fluoranthene	1,000	1,000	10,000	0.66	2.94	7.91	< 0.63	0.53	1.6	0.89
Fluorene	1,000	1,000	10,000	< 0.64	< 0.6	< 0.61	< 0.63	< 0.34	< 0.35	< 0.36
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.64	1.03	6.61	< 0.63	< 0.34	< 0.35	< 0.36
Methylnaphthalene, 2-	500	500	10,000	< 0.64	< 0.6	0.75	< 0.63	-	-	-
Naphthalene	40	500	10,000	< 0.64	< 0.6	< 0.61	< 0.63	< 0.34	< 0.35	< 0.36
Phenanthrene	1,000	100	10,000	< 0.625	< 0.6	< 0.0592	< 0.061	0.46	1.8	1.1
Pyrene	1,000	1,000	10,000	< 0.0625	< 0.6	< 0.0592	< 0.061	0.44	1.4	0.72
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	-	-
Carbazole	NA	NA	NA	-	-	-	< 0.34	< 0.35	< 0.36	< 0.36
Dibenzofuran	NA	NA	NA	-	-	-	< 0.34	< 0.35	< 0.36	< 0.36
Di-n-octyl phthalate	NA	NA	NA	-	-	-	< 0.34	< 0.35	< 0.36	< 0.36
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	-	-
Figure No.										
Original Lab Reference Date:										
ESS / Groundwater Analytical Lab Ref #	0601283-02	0601283-01	0601283-03	0601283-04	080825-38	080825-39	080825-40	0502169-17		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section										
Data Quality										

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	PPG-5 0-5 ft 2/14/2005	PPG-6 0-5 ft 2/14/2005	PPG-7 0-5 ft 2/9/2005	PPG-8 0-5 ft 2/9/2005	PPG-9 0-5 ft 2/9/2005	PPG-10 0-5 ft 2/9/2005	PPG-11 0-5 ft 2/9/2005	PPG-12 0-5 ft 2/9/2005
Acenaphthene	1,000	1,000	10,000	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	1.2	< 0.35
Acenaphthylene	100	100	10,000	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	1.2	< 0.35
Anthracene	1,000	1,000	10,000	< 0.56	0.518	0.37	< 0.34	< 0.35	< 0.41	5.3	< 0.35
Benz(a)anthracene	7	7	3,000	0.941	1.15	1.1	< 0.34	< 0.35	< 0.41	12	< 0.35
Benzo(a)pyrene	2	2	300	0.844	1.01	1.1	< 0.34	< 0.35	0.78	11	< 0.35
Benzo(b)fluoranthene	7	7	3,000	0.839	1.09	1.6	< 0.34	0.46	0.8	14	0.4
Benzo(ghi)perylene	1,000	1,000	10,000	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	0.94	3.6	< 0.35
Benzo(k)fluoranthene	70	70	10,000	0.807	0.926	0.6	< 0.34	< 0.35	< 0.41	5.2	< 0.35
Chrysene	7	7	400	0.955	1.14	1.1	< 0.34	0.36	< 0.41	11	< 0.35
Dibenz(ah)anthracene	0.7	0.7	300	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	0.76	< 1.8	< 0.35
Fluoranthene	1,000	1,000	10,000	1.74	2.42	2.5	0.62	0.7	< 0.41	27	0.54
Fluorene	1,000	1,000	10,000	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	1.5	1.5	< 0.35
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.56	0.328	< 0.34	< 0.34	< 0.35	< 0.41	2.8	< 0.35
Methylnaphthalene, 2-	500	500	10,000	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	< 1.8	< 0.35
Phenanthrene	1,000	100	10,000	1.1	1.99	1.5	0.58	0.43	0.99	17	0.38
Pyrene	1,000	1,000	10,000	1.76	2.19	1.8	0.42	0.57	1.2	19	0.42
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	-	-	-
Carbazole	NA	NA	NA	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	< 1.8	< 0.35
Dibenzofuran	NA	NA	NA	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	< 1.8	< 0.35
Di-n-octyl phthalate	NA	NA	NA	< 0.56	< 0.516	< 0.34	< 0.34	< 0.35	< 0.41	< 1.8	< 0.35
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	-	-	-
				Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8
				Original Lab Reference Date:	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
				ESS / Groundwater Analytical Lab Ref #	0502169-18	080858-14	080858-15	080858-18	080858-16	080858-17	080858-19
				Case Narrative	yes	yes	yes	yes	yes	yes	yes
				QA / QC Section	yes	yes	yes	yes	yes	yes	yes
				Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-13 0-5 ft 2/9/2005	PPG-14 0-5 ft 2/9/2005	PPG-15 0-5 ft 2/9/2005	SB-34 0-0.5 ft 5/29/2001	SB-37 4-8 ft 5/29/2001	SB-40 0-0.5 ft 5/29/2001	SB-53 4-8 ft 5/30/2001	SB-58 4-8 ft 5/31/2001
Acenaphthene	1,000	1,000	10,000	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Acenaphthylene	100	100	10,000	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Anthracene	1,000	1,000	10,000	< 0.35	< 0.36	< 0.35	< 0.353	0.832	< 0.373	< 0.468
Benz(a)anthracene	7	7	3,000	0.39	0.49	< 0.35	< 0.353	1.59	< 0.373	< 0.468
Benz(a)pyrene	2	2	300	0.36	0.46	< 0.35	< 0.353	1.33	< 0.373	< 0.468
Benz(b)fluoranthene	7	7	3,000	0.51	0.59	0.44	< 0.353	1.04	< 0.373	< 0.468
Benz(ghi)perylene	1,000	1,000	10,000	< 0.35	< 0.36	< 0.35	< 0.353	0.614	< 0.373	< 0.468
Benz(k)fluoranthene	70	70	10,000	< 0.35	< 0.36	< 0.35	< 0.353	1.09	< 0.373	< 0.468
Chrysene	7	7	400	0.39	0.5	< 0.35	< 0.353	1.46	< 0.373	< 0.468
Dibenz(ah)anthracene	0.7	0.7	300	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Fluoranthene	1,000	1,000	10,000	0.78	1	0.68	< 0.353	3.44	< 0.373	< 0.468
Fluorene	1,000	1,000	10,000	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.35	< 0.36	< 0.35	< 0.353	0.54	< 0.373	< 0.468
Methylnaphthalene, 2-	500	500	10,000	-	-	< 0.353	< 0.376	< 0.373	< 0.373	< 0.468
Naphthalene	40	500	10,000	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Phenanthrene	1,000	100	10,000	0.77	0.67	0.52	< 0.353	2.94	< 0.373	< 0.468
Pyrene	1,000	1,000	10,000	0.57	0.81	0.51	< 0.353	2.86	< 0.373	< 0.468
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	< 0.353	< 0.376	< 0.373	< 0.468	< 0.466
Butylbenzyl phthalate	NA	NA	NA	-	-	< 0.353	< 0.376	< 0.373	< 0.468	< 0.466
Carbazole	NA	NA	NA	< 0.35	< 0.36	< 0.35	-	-	-	-
Dibenzofuran	NA	NA	NA	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Di-n-octyl phthalate	NA	NA	NA	< 0.35	< 0.36	< 0.35	< 0.353	< 0.376	< 0.373	< 0.468
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	< 0.353	< 0.376	< 0.373	< 0.468	< 0.466
Figure No.			3-8	3-8	3-8	3-8	3-4	3-4	3-4	3-4
Original Lab Reference Date:			RAM Plan 8/05	RAM Plan 8/05	RAM Plan 8/05	RAM Plan 8/05	PH II CSA B01	PH II CSA B01	PH II CSA B01	PH II CSA B01
ESS / Groundwater Analytical Lab Ref #	080858-13	080858-11	01050394-06	01050394-08	01050394-09	01050394-09	01060046-05	01060046-05	01060031-03	01060031-03
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality			Presumptive certainty	Presumptive certainty	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-58 8-12 ft 5/31/2001	SB-62 8-12 ft 5/31/2001	SB-62 12-16 ft 9/19/2002	SB-170 0-4 ft 9/19/2002	SB-171 0-4 ft 9/19/2002	SB-172 0-4 ft 9/19/2002	TP-A <sup>2</sup> 5-10 ft 5/19/2005	TP-B <sup>2</sup> 5-10 ft 5/19/2005
Acenaphthene	1,000	1,000	10,000	0.429	0.673	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	58.6
Acenaphthylene	100	100	10,000	< 0.374	< 0.412	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	< 9
Anthracene	1,000	1,000	10,000	1.62	0.613	0.581	< 0.358	< 0.374	< 0.368	< 0.563	110
Benz(a)anthracene	7	7	3,000	1.53	1.71	0.652	0.372	< 0.374	< 0.368	< 0.563	123
Benz(a)pyrene	2	2	300	0.801	1.54	0.481	0.39	< 0.374	0.376	< 0.563	117
Benz(b)fluoranthene	7	7	3,000	0.719	1.19	0.461	0.525	< 0.374	< 0.368	0.589	135
Benz(ghi)perylene	1,000	1,000	10,000	0.818	< 0.412	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	67.9
Benz(k)fluoranthene	70	70	10,000	< 0.374	1.33	0.499	0.434	< 0.374	< 0.368	< 0.563	115
Chrysene	7	7	400	1.37	1.57	0.597	0.419	< 0.374	< 0.368	< 0.563	115
Dibenz(ah)anthracene	0.7	0.7	300	< 0.374	< 0.412	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	< 9
Fluoranthene	1,000	1,000	10,000	2.79	2.15	1.34	0.833	< 0.374	< 0.368	< 0.563	338
Fluorene	1,000	1,000	10,000	0.719	0.662	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	70
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.374	0.567	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	71.9
Methylnaphthalene, 2-	500	500	10,000	< 0.374	0.475	< 0.414	< 0.358	< 0.374	< 0.368	-	-
Naphthalene	40	500	10,000	< 0.374	< 0.412	< 0.414	< 0.358	< 0.374	< 0.368	< 0.563	20.6
Phenanthrene	1,000	100	10,000	3.38	1.94	1.63	0.535	< 0.374	< 0.368	< 0.563	333
Pyrene	1,000	1,000	10,000	4.51	2.3	1.39	0.787	< 0.374	< 0.368	< 0.563	253
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 0.374	< 0.412	< 0.414	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	< 0.374	< 0.412	< 0.414	-	-	-	-	-
Carbazole	NA	NA	NA	-	-	-	-	-	-	< 0.563	73.3
Dibenzofuran	NA	NA	NA	< 0.374	< 0.412	< 0.414	-	-	-	< 0.563	46.4
Di-n-octyl phthalate	NA	NA	NA	< 0.374	< 0.412	< 0.414	-	-	-	< 0.563	< 9
Methylphenol, 3- and/or 4-	NA	NA	NA	< 0.374	< 0.412	< 0.414	-	-	-	-	-
				3.4	3.4	3.4	3-4	3-4	3-4	3-8	3-8
Figure No.											
Original Lab Reference Date:	PH II CSA 801	PH II CSA 801	PH II CSA 801	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02	RAM Plan Mod. 11/02
ESS / Groundwater Analytical Lab Ref #	01060031-04	01060031-05	01060031-06	02090270-01	02090270-02	02090270-03	0505288-11	0505288-12	0505288-11	0505288-12	0505288-12
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Presumptive certainty	Presumptive certainty

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7C**  
**Semi-Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	TP-C <sup>2</sup>	TP-D <sup>2</sup>	TP-E <sup>2</sup>
				5-10 ft 5/19/2005	5-10 ft 5/19/2005	5-10 ft 5/19/2005
Acenaphthene	1,000	1,000	10,000	< 0.563	< 0.602	< 2.79
Acenaphthylene	100	100	10,000	< 0.563	< 0.602	< 2.79
Anthracene	1,000	1,000	10,000	< 0.563	< 0.602	< 2.79
Benz(a)anthracene	7	7	3,000	1.87	0.801	<b>8.03</b>
Benzo(a)pyrene	2	2	300	<b>3.16</b>	0.835	<b>8.53</b>
Benzo(b)fluoranthene	7	7	3,000	2.45	0.916	<b>7.99</b>
Benzo(ghi)perylene	1,000	1,000	10,000	1.22	< 0.602	3.07
Benzo(k)fluoranthene	70	70	10,000	3.71	< 0.602	7.86
Chrysene	7	7	400	1.78	0.771	8.74
Dibenz(ah)anthracene	0.7	0.7	300	< 0.563	< 0.602	< 2.79
Fluoranthene	1,000	1,000	10,000	1.86	1.31	15.8
Fluorene	1,000	1,000	10,000	< 0.563	< 0.602	< 2.79
Indeno(1,2,3-cd)pyrene	7	7	3,000	<b>1.18</b>	< 0.602	2.89
Methylnaphthalene, 2-	500	500	10,000	-	-	-
Naphthalene	40	500	10,000	< 0.563	< 0.602	< 2.79
Phenanthrene	1,000	100	10,000	1.2	< 0.602	12.3
Pyrene	1,000	1,000	10,000	2.23	1.13	19.5
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-
Butylbenzyl phthalate	NA	NA	NA	-	-	-
Carbazole	NA	NA	NA	< 0.563	< 0.602	< 2.79
Dibenzofuran	NA	NA	NA	< 0.563	< 0.602	< 2.79
Di-n-octyl phthalate	NA	NA	NA	< 0.563	< 0.602	< 2.79
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-
Figure No.				3-8	3-8	3-8
Original Lab Reference Date:				RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #				0505288-13	0505288-14	0505288-15
Case Narrative				yes	yes	yes
QA / QC Section				yes	yes	yes
Data Quality				Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-7D**  
**Semi-Volatile Organic Compounds in Phase 3 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-38 4-8 ft 5/29/2001	SB-38 8-12 ft 5/29/2001	SB-42 8-12 ft 5/30/2001	SB-69 8-12 ft 6/1/2001	SB-101 0-4 ft 7/25/2002	SB-102 0-4 ft 7/25/2002	SB-103 0-4 ft 7/25/2002	SB-104 0-4 ft 7/25/2002	SB-105 0-4 ft 7/25/2002
Aceranaphthalene	1,000	1,000	10,000	4.16	< 0.358	< 0.34	1.44	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Aceranaphthalene	100	100	10,000	4.54	< 0.358	< 0.34	< 0.368	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Anthracene	1,000	1,000	10,000	8.97	0.93	< 0.34	3.58	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Benz(a)anthracene	7	7	3,000	20	1.74	< 0.34	5.46	3.38	0.896	< 0.351	< 0.347	0.362
Benz(a)pyrene	2	2	300	17.2	1.41	< 0.34	4.62	3.27	0.961	< 0.351	< 0.347	0.376
Benz(b)fluoranthene	7	7	3,000	15.4	1.09	< 0.34	4.11	2.47	0.737	< 0.351	< 0.347	< 0.35
Benz(ghi)perylene	1,000	1,000	10,000	7.94	0.563	< 0.34	2.4	2.1	0.516	< 0.351	< 0.347	< 0.35
Benz(k)fluoranthene	70	70	10,000	15.9	1.3	< 0.34	3.94	2.73	0.753	< 0.351	< 0.347	< 0.35
Chrysene	7	7	400	20.5	1.64	< 0.34	5.01	3.55	0.891	< 0.351	< 0.347	0.37
Dibenz(ah)anthracene	0.7	0.7	300	< 3.6	< 0.358	< 0.34	1.07	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Fluoranthene	1,000	1,000	10,000	52.2	3.4	< 0.34	14.1	7.22	1.79	< 0.351	< 0.347	0.541
Fluorene	1,000	1,000	10,000	6.7	< 0.358	< 0.34	1.67	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Indeno(1,2,3-od)pyrene	7	7	3,000	7.35	0.512	< 0.34	2.08	1.84	0.451	< 0.351	< 0.347	< 0.35
Methylnaphthalene, 2-	500	500	10,000	< 3.6	< 0.358	< 0.34	0.52	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Naphthalene	40	500	10,000	< 3.6	< 0.358	< 0.34	1.18	< 1.83	< 0.37	< 0.351	< 0.347	< 0.35
Phenanthrene	1,000	100	10,000	67.5	3.17	< 0.34	14.3	5.25	1.2	< 0.351	< 0.347	< 0.35
Pyrene	1,000	1,000	10,000	44.9	3.06	< 0.34	11.3	6.47	1.54	< 0.351	< 0.347	0.58
Bis(2-ethylhexyl) phthalate	200	200	10,000	< 3.6	< 0.358	< 0.34	< 0.368	-	-	-	-	-
Butylbenzyl phthalate	NA	NA	NA	< 3.6	< 0.358	< 0.34	< 0.368	-	-	-	-	-
Carbazole	NA	NA	NA	-	-	-	-	-	-	-	-	-
Dibenzofuran	NA	NA	NA	8.77	< 0.358	< 0.34	1.03	-	-	-	-	-
Di-n-octyl phthalate	NA	NA	NA	< 3.6	< 0.358	< 0.34	< 0.368	-	-	-	-	-
Methylphenol, 3- and/or 4-	NA	NA	NA	< 3.6	< 0.358	< 0.34	< 0.368	-	-	-	-	-
Figure No.				34	34	34	34	34	34	34	34	34
Original Lab Reference Date:	PH II CSA 801	PH II CSA 801	PH II CSA 801	01050394-10	01050394-07	01050406-01	01060032-02	02080038-18	02080038-19	02080038-20	02080038-21	02080038-22
ESS Lab Ref #	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Case Narrative												
QA / QC Section	yes	yes	yes	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM
Data Quality												

All units are mg/kg.  
NA = not applicable.  
- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-7D**  
**Semi-Volatile Organic Compounds in Phase 3 Soil**

Analyte	Method 1		Method 1		SB-105 DUP-2		SB-106		SB-107		SB-108		SB-109		SB-110	
	S-1/GW-2	S-1/GW-3	UCL	0-4 ft	0-4 ft	7/25/2002										
Acenaphthene	1,000	1,000	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Acenaphthylene	100	100	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Anthracene	1,000	1,000	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Benz(a)anthracene	7	7	3,000	0.437	4.23	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	3.01	
Benz(a)pyrene	2	2	300	0.397	4.36	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	2.97	
Benz(b)fluoranthene	7	7	3,000	< 0.355	3.35	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	2.42	
Benz(ghi)perylene	1,000	1,000	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Benz(k)fluoranthene	70	70	10,000	< 0.355	3.89	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	2.46	
Chrysene	7	7	400	0.451	4.25	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	3.14	
Diben(z)ah)anthracene	0.7	0.7	300	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Fluoranthene	1,000	1,000	10,000	0.846	7.76	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	5.92	
Fluorene	1,000	1,000	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Indeno(1,2,3-cd)pyrene	7	7	3,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Methylnaphthalene, 2-	500	500	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Naphthalene	40	500	10,000	< 0.355	< 1.75	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	< 1.72	< 1.72
Phenanthrene	1,000	100	10,000	0.589	6.58	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	5.47	
Pyrene	1,000	1,000	10,000	0.828	11.7	< 0.347	< 0.34	< 0.358	< 0.34	< 0.358	< 0.34	< 0.358	< 0.358	< 0.358	9.18	
Bis(2-ethylhexyl) phthalate	200	200	10,000	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzyl phthalate	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzofuran	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	
Di-n-octyl phthalate	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	
Methylphenol, 3- and/or 4-	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	
				3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
Figure No.	Original Lab Reference Date:		RAM Plan Mod 11/02		RAM Plan Mod 11/02		RAM Plan Mod 11/02		RAM Plan Mod 11/02		RAM Plan Mod 11/02		RAM Plan Mod 11/02		RAM Plan Mod 11/02	
ESS Lab Ref #	02080038-23		02080038-11		02080038-12		02080038-13		02080038-14		02080038-15		yes		yes	
Case Narrative	yes		yes		yes		yes		yes		yes		yes		yes	
QA / QC Section	Pre-CAM		Pre-CAM		Pre-CAM		Pre-CAM		Pre-CAM		Pre-CAM		Pre-CAM		Pre-CAM	
Data Quality																

All units are mg/kg.  
NA = not applicable.  
- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

**Table 3-8A**  
**VPH / EPH in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	Method 1 UCL	SB-4 8-12 ft	SB-5 8-12 ft	SB-6 4-8 ft	SB-27 0-0.5 ft	SB-28 0.5-4 ft	SB-30 8-12 ft	SB-45 4-8 ft
Aliphatics, C5-C8	100	100	5,000	< 12.8	< 14.4	< 13.7	< 12	< 12.7	< 12.8	< 13.7
Aliphatics, C9-C12	1,000	1,000	20,000	< 12.8	< 14.4	< 13.7	< 12	< 12.7	< 12.8	< 13.7
Aliphatics, C9-C18	1,000	1,000	20,000	< 30.2	< 30.2	< 29.8	< 28.1	< 28.4	< 29.8	< 29.8
Aliphatics, C19-C36	2,500	2,500	20,000	< 30.2	< 30.2	< 29.8	< 28.1	< 28.4	< 29.8	< 29.8
Aromatics, C9-C10	100	100	5,000	< 12.8	< 14.4	< 13.7	< 12	< 12.7	< 12.8	< 13.7
Aromatics, C11-C22	800	800	10,000	47.8	< 30.2	< 29.8	71.2	199	< 29.8	< 29.8
TPH	800	800	10,000	-	-	-	-	-	-	-
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01050324-01	01050324-04	01050324-06	01050363-01	01050394-11	01050394-12	01050406-03			
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

**Table 3-8B**  
**VPH / EPH in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	I-1 8-12 ft 6/3/2001	I-2 12-16 ft 6/3/2001	I-3 4-8 ft 6/3/2001	I-4 4-8 ft 6/2/2001	I-5 4-8 ft 6/2/2001	I-6 4-8 ft 6/2/2001	I-7 8-12 ft 6/2/2001	I-8 12-16 ft 6/2/2001
				< 11	< 9.48	< 14.2	< 9.77	< 11.3	< 19.1	< 17.7	< 14.2
Aliphatics, C5-C8	100	100	5,000	< 11	< 9.48	< 14.2	< 9.77	< 11.3	< 19.1	< 17.7	< 14.2
Aliphatics, C9-C12	1,000	1,000	20,000	< 11	< 9.48	< 14.2	< 9.77	< 11.3	< 19.1	< 17.7	< 14.2
Aliphatics, C9-C18	1,000	1,000	20,000	< 26.4	< 28.5	< 27.7	< 25.5	< 29.6	< 29.2	< 30.9	< 30.6
Aliphatics, C19-C36	2,500	2,500	20,000	< 26.4	< 28.5	< 27.7	< 25.5	< 29.6	< 29.2	< 30.9	< 30.6
Aromatics, C9-C10	100	100	5,000	< 11	< 9.48	< 14.2	< 9.77	< 11.3	< 19.1	< 17.7	< 14.2
Aromatics, C11-C22	800	800	10,000	< 26.4	< 28.5	< 27.7	< 25.5	< 29.6	< 29.2	< 30.9	< 30.6
TPH	800	800	10,000	-	-	-	-	-	-	-	-
Figure No.				3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #				01060044-09	01060044-08	01060044-07	01060044-05	01060044-01	01060044-06	01060044-06	01060044-06
Case Narrative				yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-12 8-12 ft 5/24/2001	SB-15 4-8 ft 5/24/2001	SB-18 0-0.5 ft 5/24/2001	SB-23 0.5-4 ft 5/25/2001	SB-26 8-12 ft 5/25/2001	SB-47 0.5-4 ft 5/30/2001	SB-48 0.5-4 ft 5/30/2001	SB-51 8-12 ft 5/31/2001
				< 13.3	< 17.8	< 10.9	< 10.1	< 12.6	< 11.8	< 8.28	< 55.8
Aliphatics, C5-C8	100	100	5,000	< 13.3	< 17.8	< 10.9	< 10.1	< 12.6	< 11.8	< 8.28	< 15.7
Aliphatics, C9-C12	1,000	1,000	20,000	< 13.3	32.8	< 10.9	< 10.1	< 12.6	< 11.8	< 8.28	< 15.7
Aliphatics, C9-C18	1,000	1,000	20,000	< 30.4	720	< 27.3	< 26.7	< 30.3	< 27.2	< 25.4	< 27.5
Aliphatics, C19-C36	2,500	2,500	20,000	< 30.4	808	< 27.3	< 26.7	< 30.3	< 27.2	< 35.1	30.3
Aromatics, C9-C10	100	100	5,000	< 13.3	93.1	< 10.9	< 10.1	< 12.6	< 11.8	< 8.28	< 15.7
Aromatics, C11-C22	800	800	10,000	< 30.4	825	< 27.3	30.1	< 30.3	48.1	51.7	< 87.8
TPH	800	800	10,000	-	-	-	-	-	-	-	-
Figure No.				3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #				01050362-04	01050362-01	01050363-02	01050363-03	01050406-04	01050406-07	01050406-08	01060031-01
Case Narrative				yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

Table 3-8C  
VPH / EPH in Phase 2 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-1 0-5 ft	CCO-2 0-5 ft	CCO-3 0-5 ft	CCO-4 0-5 ft	CCO-5 0-5 ft	CCO-6 0-5 ft	CCO-7 0-5 ft	CCO-15 0-5 ft	GFTWB <sup>1</sup> 10 ft	GFTWE <sup>1</sup> 9 ft
Aliphatics, C8-C8	100	100	5,000	-	-	-	-	-	-	-	53.3	46.6
Aliphatics, C9-C12	1,000	1,000	20,000	-	-	-	-	-	-	-	67.5	57.5
Aliphatics, C9-C18	1,000	1,000	20,000	-	-	-	-	-	-	-	784	98.3
Aliphatics, C19-C36	2,500	2,500	20,000	-	-	-	-	-	-	-	257	< 48.1
Aromatics, C9-C10	100	100	5,000	-	-	-	-	-	-	-	139	125
Aromatics, C11-C22	800	800	10,000	-	-	-	-	-	-	-	475	85.9
TPH	800	800	10,000	320	110	240	1,100	760	1,100	1,000	220	-
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-5
Original Lab Reference Date:	RAM Plan 6/05	IRA 3/06										
ESS / Groundwater Analytical Lab Ref #	80825-21	80825-22	80825-23	80825-24	80825-25	80825-26	80825-27	80825-27	80825-37	80825-37	80825-37	0601283-05
Case Narrative	yes	yes										
QA / QC Section												
Data Quality	Presumptive certainty	Presumptive certainty										

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-8 0-5 ft	CCO-9 0-5 ft	CCO-10 0-5 ft	CCO-11 0-5 ft	CCO-12 0-5 ft	CCO-13 0-5 ft	CCO-14 0-5 ft	PPG-2	PPG-3	PPG-4
Aliphatics, C5-C8	100	100	5,000	-	-	-	-	-	-	-	-	-
Aliphatics, C9-C12	1,000	1,000	20,000	-	-	-	-	-	-	-	-	-
Aliphatics, C9-C18	1,000	1,000	20,000	-	-	-	-	-	-	-	-	-
Aliphatics, C19-C36	2,500	2,500	20,000	-	-	-	-	-	-	-	-	-
Aromatics, C9-C10	100	100	5,000	-	-	-	-	-	-	-	-	-
Aromatics, C11-C22	800	800	10,000	-	-	-	-	-	-	-	-	-
TPH	800	800	10,000	370	440	1,000	310	210	1,900	590	830	290
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:	RAM Plan 6/05											
ESS / Groundwater Analytical Lab Ref #	80825-29	80825-30	80825-31	80825-32	80825-33	80825-34	80825-35	80825-36	80825-37	80825-40	80825-40	0502169-17
Case Narrative	yes											
QA / QC Section												
Data Quality	Presumptive certainty											

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

Table 3-8C  
VPH / EPH in Phase 2 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	GFTWN <sup>1</sup> 9 ft	GFTWS <sup>1</sup> 9 ft	GFTWW <sup>1</sup> 9 ft	PPG-1 0-5 ft	PPG-9 0-5 ft	PPG-10 0-5 ft	PPG-11 0-5 ft	PPG-12 0-5 ft	PPG-13 0-5 ft	PPG-14 0-5 ft	PPG-15 0-5 ft	SB-62B 12-16 ft
Aliphatics, C5-C8	100	100	5,000	89.5	< 10.4	-	-	-	-	-	-	-	-	< 15.6
Aliphatics, C9-C12	1,000	1,000	20,000	116	< 15.9	< 20.8	-	-	-	-	-	-	-	< 15.6
Aliphatics, C9-C18	1,000	1,000	20,000	224	< 46	< 47.1	-	-	-	-	-	-	-	< 29.4
Aliphatics, C19-C36	2,500	2,500	20,000	80.2	133	< 47.1	-	-	-	-	-	-	-	< 29.4
Aromatics, C9-C10	100	100	5,000	204	47.6	< 20.8	-	-	-	-	-	-	-	< 15.6
Aromatics, C11-C22	800	800	10,000	181	178	< 47.1	-	-	-	-	-	-	-	< 29.4
TPH	800	800	10,000	-	-	400	100	110	260	110	180	170	81	-
Figure No.			3-5	3-5	3-5	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-4
Original Lab Reference Date:			IRA 3/06	IRA 3/06	IRA 3/06	RAM Plan 6/05	PH II CSA 8/01							
ESS / Groundwater Analytical Lab Ref #			0601283-01	0601283-03	0601283-04	80825-38	80858-18	80858-16	80858-17	80858-19	80858-13	80858-11	80858-12	01060031-06
Case / Narrative			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality			Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Pre-CAM

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-5 0-5 ft	PPG-6 0-5 ft	PPG-7 0-5 ft	PPG-8 0-5 ft	SB-34 4-8 ft	SB-37 4-8 ft	SB-40 0-0.5 ft	SB-53 4-8 ft	SB-58A 4-8 ft	SB-58B 4-8 ft	SB-62A 8-12 ft	TP-3 / S-2 4-5 ft
Aliphatics, C5-C8	100	100	5,000	-	-	-	< 9.41	< 10.4	< 9.16	< 17.9	47.1	126	105	-
Aliphatics, C9-C12	1,000	1,000	20,000	-	-	-	< 9.41	< 10.4	< 9.16	< 17.9	117	46.5	40	-
Aliphatics, C9-C18	1,000	1,000	20,000	-	-	-	< 25.8	< 28.2	< 27.2	< 35.1	37	< 27.9	111	-
Aliphatics, C19-C36	2,500	2,500	20,000	-	-	-	< 25.8	< 28.2	< 27.2	< 35.1	< 30.7	< 27.9	47.1	-
Aromatics, C9-C10	100	100	5,000	-	-	-	< 9.41	< 10.4	< 9.16	< 17.9	107	40	54.1	-
Aromatics, C11-C22	800	800	10,000	-	-	-	< 25.8	< 28.2	< 27.2	< 35.1	< 30.7	59.8	89.9	-
TPH	800	800	10,000	276	107	350	170	-	-	-	-	-	-	144
Figure No.			3-8	3-8	3-8	3-8	3-8	3-8	3-4	3-4	3-4	3-4	3-4	3-3
Original Lab Reference Date:			RAM Plan 6/05	PH II CSA 8/01										
ESS / Groundwater Analytical Lab Ref #			0502169-18	0502169-19	80858-14	80858-15	80858-14	80858-15	01050394-06	01050394-08	01050394-09	01050394-03	01060031-04	01060031-05
Case / Narrative			yes	yes										
QA / QC Section			yes	yes										
Data Quality			Presumptive certainty	Pre-CAM										

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.<sup>2</sup>Sample represents a grab sample collected from a test pil.

Table 3-8C

VPH / EPH in Phase 2 Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	TP-1 / S-1 2 ft 5/19/2005	TP-1 / S-2 4-5 ft 5/19/2005	TP-2 / S-1 2 ft 5/19/2005	TP-2 / S-2 4-5 ft 5/19/2005	TP-3 / S-1 2 ft 5/19/2005	TP-B <sup>2</sup> 5-10 ft 5/19/2005	TP-C <sup>2</sup> 5-10 ft 5/19/2005	TP-D <sup>2</sup> 5-10 ft 5/19/2005	TP-E <sup>2</sup> 5-10 ft 5/19/2005
Aliphatics, C5-C8	100	100	5,000	-	-	-	-	-	-	-	-	-
Aliphatics, C9-C12	1,000	1,000	20,000	-	-	-	-	-	-	-	-	-
Aliphatics, C9-C18	1,000	1,000	20,000	-	-	-	-	-	-	-	-	-
Aliphatics, C19-C36	2,500	2,500	20,000	-	-	-	-	-	-	-	-	-
Aromatics, C9-C10	100	100	5,000	-	-	-	-	-	-	-	-	-
Aromatics, C11-C22	800	800	10,000	-	-	-	-	-	-	-	-	-
TPH	800	800	10,000	<b>4,050</b>	700	132	<b>1,760</b>	125	<b>1,480</b>	99	82	421
Figure No.				3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:				RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #				050288-01	050288-02	050288-03	050288-04	050288-05	050288-12	050288-13	050288-14	050288-15
Case / Narrative				yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality				Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	TP-4 / S-1 2 ft 5/19/2005	TP-4 / S-2 4-5 ft 5/19/2005	TP-5 / S-1 2 ft 5/19/2005	TP-5 / S-2 4-5 ft 5/19/2005	TP-A <sup>2</sup> 5-10 ft 5/19/2005
Aliphatics, C5-C8	100	100	5,000	-	-	-	-	-
Aliphatics, C9-C12	1,000	1,000	20,000	-	-	-	-	-
Aliphatics, C9-C18	1,000	1,000	20,000	-	-	-	-	-
Aliphatics, C19-C36	2,500	2,500	20,000	-	-	-	-	-
Aromatics, C9-C10	100	100	5,000	-	-	-	-	-
Aromatics, C11-C22	800	800	10,000	-	-	-	-	-
TPH	800	800	10,000	< 41.1	219	93	346	87
Figure No.				3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:				RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #				050288-07	050288-08	050288-09	050288-10	050288-11
Case / Narrative				yes	yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes	yes
Data Quality				Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.  
Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from either a UST excavation sidewall or bottom.  
<sup>2</sup>Sample represents a grab sample collected from a test pil.

**Table 3-8D**  
**VPH / EPH in Phase 3 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-38A 4-8 ft	SB-38B 8-12 ft	SB-42 8-12 ft	SB-69 8-12 ft
Aliphatics, C5-C8	100	100	5,000	< 10.8	< 9.38	< 9	< 10.4
Aliphatics, C9-C12	1,000	1,000	20,000	11.4	< 9.38	< 9	< 10.4
Aliphatics, C9-C18	1,000	1,000	20,000	117	36.7	< 26.1	< 27.7
Aliphatics, C19-C36	2,500	2,500	20,000	82.2	37.4	< 26.1	< 27.7
Aromatics, C9-C10	100	100	5,000	< 10.8	< 9.38	< 9	< 10.4
Aromatics, C11-C22	800	800	10,000	397	68.3	< 26.1	169
TPH	800	800	10,000	-	-	-	-
Figure No.				3.4	3.4	3.4	3.4
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #				01050394-10	01050394-07	01050406-01	01060032-02
Case Narrative			yes	yes	yes	yes	yes
QA / QC Section			yes	yes	yes	yes	yes
Data Quality			Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Value** = concentration exceeds Method 1 standard.

Table 3-9A  
Volatile Organic Compounds in Harbor Trail Soil

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-4 8-12 ft 5/23/2001	SB-5 8-12 ft 5/23/2001	SB-6 4-8 ft 5/25/2001	SB-27 0-0.5 ft 5/29/2001	SB-28 0.5-4 ft 5/29/2001	SB-30 8-12 ft 5/29/2001	SB-45 4-8 ft 5/30/2001
Benzene	30	30	9,000	< 0.051	< 0.058	< 0.055	< 0.048	1.08	< 0.069	< 0.057
Butylbenzene, 1-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Butylbenzene, sec-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Carbon disulfide	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Ethylbenzene	500	500	10,000	< 0.051	< 0.058	< 0.055	< 0.048	0.205	< 0.069	< 0.057
Isopropylbenzene	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Isopropyltoluene, 4-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Propylbenzene, 1-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	< 0.048	< 0.069	< 0.057
Toluene	300	500	10,000	< 0.051	< 0.058	< 0.055	< 0.048	0.225	< 0.069	< 0.057
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	0.069	< 0.069	< 0.057
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 0.051	< 0.058	< 0.055	< 0.048	0.077	< 0.069	< 0.057
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	< 0.103	< 0.115	< 0.11	< 0.096	0.508	< 0.137	< 0.114
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01050324-02	01050324-03	01050324-06	01050363-01	01050394-11	01050394-12	01050406-03			
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-9B**  
**Volatile Organic Compounds in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL 6/2/2001	I-1 8-12 ft	I-2 12-16 ft	I-3 4-8 ft	I-4 4-8 ft	I-5 4-8 ft	I-6 4-8 ft	I-7 8-12 ft	I-8 12-16 ft	SB-12 8-12 ft
Benzene	30	30	9,000	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Butylbenzene, 1-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Butylbenzene, sec-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Carbon disulfide	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	0.165	0.088	< 0.053
Ethylbenzene	500	500	10,000	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Isopropylbenzene	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Isopropyltoluene, 4-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Propylbenzene, 1-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Toluene	300	500	10,000	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 0.044	< 0.038	< 0.057	< 0.039	< 0.045	< 0.076	< 0.069	< 0.057	< 0.053
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylene, 1,3, and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	< 0.088	< 0.076	< 0.114	< 0.078	< 0.091	< 0.153	< 0.137	< 0.114	< 0.106
Figure No.				3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01060044-09	01060044-08	01060044-07	01060044-05	01060044-04	01060044-03	01060044-02	01060044-01	01060044-06	01060044-02	01060044-02	01060044-02
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-9B**  
**Volatile Organic Compounds in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-15 4-8 ft 5/24/2001	SB-18 0-0.5 ft 5/24/2001	SB-23 0.5-4 ft 5/25/2001	SB-26 8-12 ft 5/25/2001	SB-47 0.5-4 ft 5/30/2001	SB-48 0.5-4 ft 5/30/2001	SB-51 8-12 ft 5/30/2001	SB-55 0-0.5 ft 5/31/2001
Benzene	30	30	9,000	< 0.071	< 0.044	0.08	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Butylbenzene, 1-	NA	NA	NA	< 0.071	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Butylbenzene, sec-	NA	NA	NA	0.681	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Carbon disulfide	NA	NA	NA	< 0.071	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Ethylbenzene	500	500	10,000	< 0.071	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Isopropylbenzene	NA	NA	NA	0.318	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Isopropyltoluene, 4-	NA	NA	NA	0.85	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	5.73	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Propylbenzene, 1-	NA	NA	NA	0.769	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Toluene	300	500	10,000	< 0.071	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Trimethylbenzene, 1,2,4-	NA	NA	NA	6	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Trimethylbenzene, 1,3,5-	NA	NA	NA	0.529	< 0.044	< 0.04	< 0.05	< 0.046	< 0.037	< 0.26	< 0.063
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	< 0.142	< 0.087	< 0.081	< 0.101	< 0.092	< 0.074	< 0.52	< 0.125
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #	01050362-01	01050362-02	01050363-02	01050363-03	01050406-04	01050406-07	01050406-08	01060031-01	yes	yes	yes
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.  
- = sample not analyzed for this compound / constituent.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	CCO-1	CCO-2	CCO-3	CCO-4	CCO-5	CCO-6	CCO-7	CCO-8	CCO-9
				0-5 ft 2/8/2005								
Benzene	30	30	9,000	-	-	-	-	-	-	-	-	-
Butylbenzene, 1-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Butylbenzene, sec-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Carbon disulfide	NA	NA	NA	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	500	10,000	< 0.31	< 0.31	< 0.34	< 0.29	< 0.29	< 0.29	< 0.38	< 0.31	< 0.3
Isopropylbenzene	NA	NA	NA	-	-	-	-	-	-	-	-	-
Isopropyl/toluene, 4-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.31	< 0.31	< 0.34	< 0.29	0.33	< 0.29	< 0.38	< 0.31	< 0.3
Propylbenzene, 1-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Toluene	300	500	10,000	< 0.31	< 0.31	< 0.34	< 0.29	< 0.29	< 0.29	< 0.38	< 0.31	< 0.3
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.31	< 0.31	< 0.34	< 0.29	< 0.29	< 0.29	< 0.38	< 0.31	< 0.3
Trimethylbenzene, 1,3,5-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	< 0.31	< 0.31	< 0.34	< 0.29	< 0.29	< 0.29	< 0.38	< 0.31	< 0.3
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:	RAM Plan 6/05											
ESS / Groundwater Analytical Lab Ref #	080825-01	080825-02	080825-03	080825-04	080825-05	080825-06	080825-07	080825-09	080825-10			
Case Narrative	yes											
QA / QC Section	yes											
Data Quality	Presumptive certainty											

All units are mg/kg.  
NA = not applicable.

= Sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	CCO-10 0-5 ft 2/8/2005	CCO-11 0-5 ft 2/8/2005	CCO-12 0-5 ft 2/8/2005	CCO-13 0-5 ft 2/8/2005	CCO-14 0-5 ft 2/8/2005	CCO-15 0-5 ft 2/8/2005	GFTWB <sup>1</sup> 10 ft 1/25/2006	GFTWE <sup>1</sup> 9 ft 1/25/2006	GFTWN <sup>1</sup> 9 ft 1/25/2006	
Benzene	30	30	9,000	-	-	-	-	-	0.0951	0.21	0.139		
Butylbenzene, 1-	NA	NA	NA	-	-	-	-	-	< 0.061	0.101	2.81		
Butylbenzene, sec-	NA	NA	NA	-	-	-	-	-	0.788	< 0.0611	0.97		
Carbon disulfide	NA	NA	NA	-	-	-	-	-	< 0.061	< 0.0611	< 0.0448		
Ethylbenzene	500	500	10,000	< 0.35	< 0.31	< 0.3	< 0.37	< 0.39	< 0.33	0.132	0.138	1.25	
Isopropylbenzene	NA	NA	NA	-	-	-	-	-	0.562	< 0.0611	1.52		
Isopropyltoluene, 4-	NA	NA	NA	-	-	-	-	-	< 0.061	< 0.0611	< 0.0448		
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	< 0.18	< 0.2	< 0.15		
Naphthalene	40	500	10,000	1.3	< 0.31	< 0.3	< 0.37	< 0.39	< 0.33	0.31	0.0928	1.04	
Propylbenzene, 1-	NA	NA	NA	-	-	-	-	-	-	2.03	0.0721	4.56	
Toluene	300	500	10,000	< 0.35	< 0.31	< 0.3	< 0.37	< 0.39	< 0.33	0.0988	< 1.37	< 1	
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.35	< 0.31	< 0.3	< 0.37	< 0.39	< 0.33	0.244	0.105	0.981	
Trimethylbenzene, 1,3,5-	NA	NA	NA	-	-	-	-	-	0.0866	< 0.0611	0.842		
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	< 1.2	< 1.37	1.67		
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	< 2.41	< 2.73	< 2.01		
Xylenes, total	300	300	10,000	< 0.35	< 0.31	< 0.3	< 0.37	< 0.39	< 0.33	0.255	0.213	0.244	
Figure No.				3-8	3-8	3-8	3-8	3-8	3-8	3-5	3-5	3-5	
Original Lab Reference Date:				RAM Plan 6/05	RAM Plan 6/06	RAM Plan 6/06	RAM Plan 6/06						
ESS / Groundwater Analytical Lab Ref #	080825-11	080825-12	080825-13	080825-14	080825-15	080825-17	080825-17	080825-17	0601283-05	0601283-02	0601283-01		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes		
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	GFTWS <sup>1</sup> 9 ft	GFTWW <sup>1</sup> 9 ft	PPG-1 0-5 ft	PPG-2 0-5 ft	PPG-3 0-5 ft	PPG-4 0-5 ft	PPG-5 0-5 ft	PPG-6 0-5 ft	PPG-7 0-5 ft
Benzene	30	30	9,000	< 0.79	0.0805	-	-	-	-	-	-
Butylbenzene, 1-	NA	NA	< 0.0512	1.68	-	-	-	-	-	-	-
Butylbenzene, sec-	NA	NA	0.645	0.493	-	-	-	-	-	-	-
Carbon disulfide	NA	NA	< 0.0512	< 0.0567	-	-	-	-	-	-	-
Ethylbenzene	500	500	10,000	0.272	0.0612	< 0.33	< 0.26	< 0.29	< 0.045	< 0.04	< 0.039
Isopropylbenzene	NA	NA	1.05	0.186	-	-	-	-	-	-	-
Isopropyltoluene, 4-	NA	NA	0.332	< 0.0567	-	-	-	-	-	-	-
Methyl tert-butyl ether	100	100	5,000	< 0.12	< 0.16	-	-	-	-	-	-
Naphthalene	40	500	10,000	0.593	0.117	< 0.33	< 0.26	< 0.29	0.442	0.402	< 0.039
Propylbenzene, 1-	NA	NA	2.72	1.04	-	-	-	-	-	-	-
Toluene	300	500	10,000	< 0.79	0.126	1.2	< 0.26	< 0.29	< 0.045	< 0.04	< 0.039
Trimethylbenzene, 1,2,4-	NA	NA	8.02	0.183	< 0.33	< 0.26	< 0.29	0.0784	< 0.04	< 0.039	< 0.26
Trimethylbenzene, 1,3,5-	NA	NA	0.901	0.0703	-	-	-	-	-	-	-
Xylene, 1,2-	NA	NA	< 0.79	< 1.04	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	< 1.59	< 2.08	-	-	-	-	-	-	-
Xylenes, total	300	10,000	0.304	0.22	0.52	< 0.26	< 0.29	0.261	0.0551	< 0.039	< 0.26
Figure No.	3-5	3-5	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:	RAM Plan 6/06	RAM Plan 6/06	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #	0601283-03	0601283-04	080825-18	080825-19	080825-20	0502169-17	0502169-18	0502169-19	080858-04		
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

= sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	PPG-8 0-5 ft 2/9/2005	PPG-9 0-5 ft 2/9/2005	PPG-10 0-5 ft 2/9/2005	PPG-11 0-5 ft 2/9/2005	PPG-12 0-5 ft 2/9/2005	PPG-13 0-5 ft 2/9/2005	PPG-14 0-5 ft 2/9/2005	PPG-15 0-5 ft 2/9/2005	SB-34 0-0.5 ft 5/29/2001
Benzene	30	30	9,000	-	-	-	-	-	-	-	-	< 0.035
Butylbenzene, 1-	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Butylbenzene, sec-	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Carbon disulfide	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Ethylbenzene	500	500	10,000	0.71	< 0.25	< 0.28	< 0.29	< 0.29	< 0.26	< 0.28	< 0.28	< 0.035
Isopropylbenzene	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Isopropyltoluene, 4-	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	< 0.32	0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.035
Propylbenzene, 1-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Toluene	300	500	10,000	2.1	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.035
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.32	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.035
Trimethylbenzene, 1,3,5-	NA	NA	NA	-	-	-	-	-	-	-	-	< 0.035
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	3.06	< 0.25	< 0.28	< 0.28	< 0.29	< 0.26	< 0.28	< 0.28	< 0.069
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-4
Original Lab Reference Date:				RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	PHI/OSA B01
ESS / Groundwater Analytical Lab Ref #	080858-05	080858-09	080858-06	080858-07	080858-09	080858-03	080858-01	080858-02	01050394-06			
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Pre-CAM

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-37 4-8 ft	SB-40 0-5 ft	SB-53 4-8 ft	SB-58 4-8 ft	SB-62 8-12 ft	SB-62 12-16 ft	TP-A <sup>2</sup> 5-10 ft	TP-B <sup>2</sup> 5-10 ft
Benzene	30	30	9,000	< 0.043	< 0.045	< 0.071	0.18	0.184	1.44	0.114	< 0.0493
Butylbenzene, 1-	NA	NA	NA	< 0.043	< 0.045	< 0.071	< 0.043	2.14	4.06	< 0.062	< 0.121
Butylbenzene, sec-	NA	NA	NA	< 0.043	< 0.045	< 0.071	1.62	1.18	1.74	< 0.062	< 0.121
Carbon disulfide	NA	NA	NA	< 0.043	< 0.045	< 0.071	< 0.043	< 0.055	< 0.071	< 0.062	-
Ethylbenzene	500	500	10,000	< 0.043	< 0.045	< 0.071	0.677	0.669	0.97	< 0.062	< 0.121
Isopropylbenzene	NA	NA	NA	< 0.043	< 0.045	< 0.071	1.78	2.36	3.42	0.097	< 0.049
Isopropyltoluene, 4-	NA	NA	NA	< 0.043	< 0.045	< 0.071	0.602	2.05	0.203	< 0.062	-
Methyl tert-butyl ether	100	100	5,000	-	-	-	-	-	-	-	-
Naphthalene	40	500	10,000	0.051	< 0.045	< 0.071	0.185	0.369	0.293	< 0.062	< 0.0493
Propylbenzene, 1-	NA	NA	NA	< 0.043	< 0.045	< 0.071	2.73	2.97	8.78	0.15	< 0.0493
Toluene	300	500	10,000	< 0.043	< 0.045	< 0.071	0.518	< 0.055	0.304	< 0.062	< 0.121
Trimethylbenzene, 1,2,4-	NA	NA	NA	< 0.043	< 0.045	< 0.071	0.379	0.269	0.212	< 0.062	< 0.121
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 0.043	< 0.045	< 0.071	0.188	0.223	0.127	< 0.062	< 0.121
Xylene, 1,2-	NA	NA	NA	-	-	-	-	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-	-	-	-	-
Xylenes, total	300	300	10,000	< 0.086	< 0.089	< 0.143	1.01	1	0.813	< 0.125	< 0.148
Figure No.	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-8	3-8
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/05	PH II CSA 8/05
ESS / Groundwater Analytical Lab Ref #	01050394-08	01050394-09	01050406-05	01060031-03	01060031-04	01060031-05	01060031-06	01060031-07	01060031-08	0505288-11	0505288-12
Case Narrative	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9C**  
**Volatile Organic Compounds in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	Method 1 UCL	TP-C <sup>2</sup> 5-10 ft 5/19/2005	TP-D <sup>2</sup> 5-10 ft 5/19/2005	TP-E <sup>2</sup> 5-10 ft 5/19/2005
Benzene	30	30	9,000	0.0882	< 0.0599	< 0.0543
Butylbenzene, 1-	NA	NA	NA	< 0.054	0.117	< 0.0543
Butylbenzene, sec-	NA	NA	NA	0.0751	0.0803	< 0.0543
Carbon disulfide	NA	NA	NA	-	-	-
Ethylbenzene	500	500	10,000	0.0958	0.158	< 0.0543
Isopropylbenzene	NA	NA	NA	0.121	0.0743	< 0.0543
Isopropyltoluene, 4-	NA	NA	NA	-	-	-
Methyl tert-butyl ether	100	100	5,000	-	-	-
Naphthalene	40	500	10,000	0.142	< 0.0599	< 0.0543
Propylbenzene, 1-	NA	NA	NA	0.312	0.198	< 0.0543
Toluene	300	500	10,000	0.158	0.145	< 0.0543
Trimethylbenzene, 1,2,4-	NA	NA	NA	0.331	0.248	< 0.0543
Trimethylbenzene, 1,3,5-	NA	NA	NA	0.179	0.0934	< 0.0543
Xylene, 1,2-	NA	NA	NA	-	-	-
Xylene, 1,3, and/or 1,4-	NA	NA	NA	-	-	-
Xylenes, total	300	300	10,000	0.534	0.444	< 0.162
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05	RAM Plan 6/05
ESS / Groundwater Analytical Lab Ref #	0505288-13	0505288-14	0505288-15	yes	yes	yes
Case Narrative						
QA / QC Section	yes	yes	yes	yes	yes	yes
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.  
NA = not applicable.

- = sample not analyzed for this compound / constituent.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-9D**  
**Volatile Organic Compounds in Phase 3 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-38 4-8 ft 5/29/2001	SB-38 8-12 ft 5/29/2001	SB-42 8-12 ft 5/30/2001	SB-69 8-12 ft 6/1/2001
Benzene	30	30	9,000	< 0.048	< 0.041	< 0.037	< 0.042
Butylbenzene, 1-	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Butylbenzene, sec-	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Carbon disulfide	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Ethylbenzene	500	500	10,000	< 0.048	< 0.041	< 0.037	< 0.042
Isopropylbenzene	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Isopropyltoluene, 4-	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Methyl tert-butyl ether	100	100	5,000	-	-	-	-
Naphthalene	40	500	10,000	0.966	0.08	< 0.037	0.761
Propylbenzene, 1-	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Toluene	300	500	10,000	< 0.048	< 0.041	< 0.037	< 0.042
Trimethylbenzene, 1,2,4-	NA	NA	NA	0.089	< 0.041	< 0.037	< 0.042
Trimethylbenzene, 1,3,5-	NA	NA	NA	< 0.048	< 0.041	< 0.037	< 0.042
Xylene, 1,2-	NA	NA	NA	-	-	-	-
Xylene, 1,3- and/or 1,4-	NA	NA	NA	-	-	-	-
Xylenes, total	300	300	10,000	< 0.096	< 0.083	< 0.074	< 0.083
Figure No.				3-4	3-4	3-4	3-4
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01
ESS Lab Ref #				01050394-10	01050394-07	01050406-01	01060032-02
Case Narrative				yes	yes	yes	yes
QA / QC Section				yes	yes	yes	yes
Data Quality				Pre-CAM	Pre-CAM	Pre-CAM	Pre-CAM

All units are mg/kg.  
NA = not applicable.  
- = sample not analyzed for this compound / constituent.

**Table 3-10A**  
**Polychlorinated Biphenyls in Harbor Trail Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-27 0-0.5 ft 5/25/2001	SB-27 8-12 ft 5/29/2001	SB-30 8-12 ft 5/29/2001
Arochlor 1016	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1221	NA	NA	NA	< 0.0749	< 0.0773	
Arochlor 1232	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1242	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1248	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1254	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1260	NA	NA	NA	< 0.0375	< 0.0387	
Arochlor 1262	NA	NA	NA	-	-	
Arochlor 1268	NA	NA	NA	-	-	
Total PCBs	2	2	100	< 0.0749	< 0.0773	
Figure No.				3-4	3-4	
Original Lab Reference Date:				PH II CSA 8/01	PH II CSA 8/01	
ESS Lab Ref #				1050363-01	1060031-08	
Case Narrative				yes	yes	
QA / QC Section				yes	yes	
Data Quality				Pre-CAM	Pre-CAM	

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-10B**  
**Polychlorinated Biphenyls in Phase 1 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	1-8	SB-48	SB-55
				12-16 ft	0.5-4 ft	0-0.5 ft
				6/2/2001	5/30/2001	5/31/2001
Arochlor 1016	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1221	NA	NA	NA	< 0.0813	< 0.069	< 0.148
Arochlor 1232	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1242	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1248	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1254	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1260	NA	NA	NA	< 0.0407	< 0.0345	< 0.0741
Arochlor 1262	NA	NA	NA	-	-	-
Arochlor 1268	NA	NA	NA	-	-	-
Total PCBs	2	2	100	< 0.0813	< 0.069	< 0.148
Figure No.	3-4	3-4	3-4			
Original Lab Reference Date:	PH II CSA 8/01	PH II CSA 8/01	PH II CSA 8/01			
ESS Lab Ref #	1060044-02	1050406-07	10600331-01			
Case Narrative	yes	yes	yes			
QA / QC Section	yes	yes	yes			
Data Quality	Pre-CAM	Pre-CAM	Pre-CAM			

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-10C**  
**Polychlorinated Biphenyls in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-1 0-5 ft	CCO-2 0-5 ft	CCO-3 0-5 ft	CCO-4 0-5 ft	CCO-5 0-5 ft	CCO-6 0-5 ft	CCO-7 0-5 ft	CCO-8 0-5 ft	GFTWB <sup>1</sup> 9 ft	GFTWN <sup>1</sup> 9 ft	GFTWS <sup>1</sup> 9 ft	GFTWW <sup>1</sup> 9 ft
Arochlor 1016	NA	NA	< 0.084	< 0.084	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	0.196	< 0.061
Arochlor 1221	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1232	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1242	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1248	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1254	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1260	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1262	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Arochlor 1268	NA	NA	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.092	< 0.0625	< 0.0569	< 0.0592	< 0.061
Total PCBs	2	2	100	< 0.084	< 0.086	< 0.084	< 0.084	< 0.089	< 0.087	< 0.092	< 0.0625	< 0.0569	0.196	< 0.061
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-5	3-5	3-5	3-5
Original Lab Reference Date:	RAM Plan 605	RAM Plan 605	RAM Plan 605	RAM Plan 605										
ESS / Groundwater Analytical Lab Ref #	80825-21	80825-22	80825-23	80825-24	80825-25	80825-25	80825-26	80825-27	80825-27	80825-29	80825-29	80825-30	80825-30	80825-30
Case Narrative	yes	yes	yes	yes										
QA / QC Section	yes	yes	yes	yes										
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty										

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	CCO-9 0-5 ft	CCO-10 0-5 ft	CCO-11 0-5 ft	CCO-12 0-5 ft	CCO-13 0-5 ft	CCO-14 0-5 ft	GFTWB <sup>1</sup> 10 ft	GFTWB <sup>1</sup> 10 ft	PPG-5	PPG-6	PPG-7	PPG-8
Arochlor 1016	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1221	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1232	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1242	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1248	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1254	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1260	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1262	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Arochlor 1268	NA	NA	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.089	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Total PCBs	2	2	100	< 0.094	< 0.087	< 0.087	< 0.089	< 0.091	< 0.092	< 0.0611	< 0.074	< 0.051	< 0.087	< 0.084
Figure No.	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:	RAM Plan 605	RAM Plan 605	RAM Plan 605	RAM Plan 605	RAM Plan 605	RAM Plan 605								
ESS / Groundwater Analytical Lab Ref #	80825-30	80825-31	80825-32	80825-33	80825-34	80825-35	80825-37	80825-37	80825-37	80825-37	80825-37	80825-37	80825-37	80825-37
Case Narrative	yes	yes	yes	yes	yes	yes								
QA / QC Section	yes	yes	yes	yes	yes	yes								
Data Quality	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty								

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

= sample = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-10C**  
**Polychlorinated Biphenyls in Phase 2 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-1 0-5 ft 2/8/2005	PPG-2 0-5 ft 2/8/2005	PPG-3 0-5 ft 2/14/2005	PPG-4 0-5 ft 2/9/2005	PPG-13 0-5 ft 2/9/2005	PPG-14 0-5 ft 2/9/2005	PPG-15 0-5 ft 2/9/2005	SB-34 0-0.5 ft 5/29/2001	SB-40 0-0.5 ft 5/29/2001	SB-58 0-4 ft 5/31/2001	TP-A <sup>2</sup> 5-10 ft 5/19/2005	TP-B <sup>2</sup> 5-10 ft 5/19/2005
Arochlor 1016	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1221	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0702	< 0.0744	< 0.0823	< 0.0605	< 0.0866	
Arochlor 1232	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1242	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1248	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1254	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1260	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1262	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Arochlor 1268	NA	NA	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0351	< 0.0372	< 0.0412	< 0.0605	< 0.0866	
Total PCBs	2	2	100	< 0.081	< 0.086	< 0.056	< 0.087	< 0.088	< 0.082	< 0.0702	< 0.0744	< 0.0823	< 0.0605	0.66
Figure No.			3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:			RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605
ESS / Groundwater Analytical Lab Ref #			80825-38	80825-39	80825-40	80825-41	80825-42	80825-43	80825-44	80825-45	80825-46	80825-47	80825-48	80825-49
Case Narrative			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Data Quality			Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	PPG-9 0-5 ft 2/9/2005	PPG-10 0-5 ft 2/9/2005	PPG-11 0-5 ft 2/9/2005	PPG-12 0-5 ft 2/9/2005	TP-C <sup>2</sup> 0-5 ft 5/19/2005	TP-D <sup>2</sup> 0-5 ft 5/19/2005	TP-E <sup>2</sup> 5-10 ft 5/19/2005	
Arochlor 1016	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1221	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1232	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1242	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1248	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1254	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1260	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0626	
Arochlor 1262	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Arochlor 1268	NA	NA	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	< 0.0605	
Total PCBs	2	2	100	< 0.086	< 0.095	< 0.087	< 0.083	< 0.0544	< 0.0628	0.0626
Figure No.			3-8	3-8	3-8	3-8	3-8	3-8	3-8	3-8
Original Lab Reference Date:			RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605	RAM Pan 605
ESS / Groundwater Analytical Lab Ref #			80858-18	80858-16	80858-17	80858-19	80858-13	80858-14	80858-15	80858-16
Case Narrative			yes	yes	yes	yes	yes	yes	yes	yes
QA / QC Section			yes	yes	yes	yes	yes	yes	yes	yes
Data Quality			Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty	Presumptive certainty

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

Value = concentration exceeds Method 1 standard.

<sup>1</sup>Sample represents a grab sample collected from a UST excavation sidewall or bottom.

<sup>2</sup>Sample represents a grab sample collected from a test pit.

**Table 3-10D**  
**Polychlorinated Biphenyls in Phase 3 Soil**

Analyte	Method 1 S-1/GW-2	Method 1 S-1/GW-3	UCL	SB-42 8-12 ft 5/30/2001
Arochlor 1016	NA	NA	NA	< 0.0347
Arochlor 1221	NA	NA	NA	< 0.0694
Arochlor 1232	NA	NA	NA	< 0.0347
Arochlor 1242	NA	NA	NA	< 0.0347
Arochlor 1248	NA	NA	NA	< 0.0347
Arochlor 1254	NA	NA	NA	< 0.0347
Arochlor 1260	NA	NA	NA	< 0.0347
Arochlor 1262	NA	NA	NA	-
Arochlor 1268	NA	NA	NA	-
Total PCBs	2	2	100	< 0.0694
Figure No.	3-4			
Original Lab Reference Date:				PH II CSD 8/01
ESS Lab Ref #				1050406-07
Case Narrative				yes
QA / QC Section				yes
Data Quality				Pre-CAM

All units are mg/kg.

NA = not applicable.

- = sample not analyzed for this compound / constituent.

**Table 3-11**  
**Volatile Organic Compounds and Volatile Petroleum Hydrocarbons in Soil Gas**

Analyte	SG-9 8/27/2002	SG-12 8/27/2002	SG-14 8/27/2002	SG-15 8/27/2002	SG-16 8/27/2002	SG-18 8/27/2002	SG-22 8/27/2002	SG-24 8/27/2002
<b>Volatile Organic Compounds (VOCs)</b>								
Benzene	4.3	< 2	< 20	< 20	< 20	< 20	< 20	23
Butadiene, 1,3-	< 2	< 2	< 20	< 20	< 20	< 20	< 2	< 2
Ethylbenzene	< 2	< 2	< 20	< 20	< 20	< 20	< 2	7.8
Methyl tert-butyl ether	< 2	< 2	< 20	< 20	< 20	< 20	< 2	< 2
Methylnaphthalene, 2-	9.6	< 2	< 20	< 20	< 20	< 20	< 2	12
Naphthalene	31	< 2	< 20	< 20	< 20	< 20	< 2	30
Toluene	6.7	< 2	< 20	28	< 20	< 20	7.4	58
Xylene, 1,2-	2.3	< 2	< 20	< 20	< 20	< 20	< 2	10
Xylene, 1,3- and/or 1,4-	2.8	< 2	< 20	< 20	< 20	< 20	2.7	17
<b>Volatile Petroleum Hydrocarbons (VPH)</b>								
Aliphatics, C5-C8	580	540	< 120	1,180	1,490	1,440	558	656
Aliphatics, C9-C12	< 12	187	< 120	< 120	< 120	< 120	160	353
Aromatics, C9-C10	< 12	< 12	< 120	< 120	< 120	< 120	< 12	99
Figure No.	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6
Original Lab Report Reference Date:	RAM Plan Mod. 11/02							
New England Testing Laboratory	M0830-11							
Case Narrative	yes							
QA/QC Section	no							
Data Quality	Pre-CAM							

All units are ug/m<sup>3</sup>.

## **APPENDIX D**



**GANNETT FLEMING, INC.**  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
**Office:** (617) 527-7822  
**Fax:** (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 28, 2008

Ms. Karen Stromberg  
Massachusetts Department of Environmental Protection  
Northeast Regional Office  
205B Lowell Street  
Wilmington, MA 01887

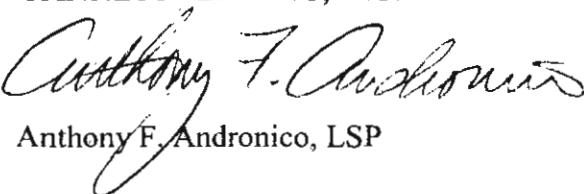
Re: Activity and Use Limitation  
Former National Lead Site  
800 Albany Street  
Boston (Roxbury), MA  
MassDEP RTN 3-0245  
ACO-NE-05-3R001

Dear Ms. Stromberg:

Gannett Fleming, Inc. on behalf of CJ Crosstown, LLC is pleased to submit this registered copy of an Activity and Use Limitation (AUL) for the above-referenced site, which was filed at the Suffolk County Registry of Deeds on February 14, 2008. Also enclosed are AUL Transmittal Form BSWC 113, copies of the cover letters to public officials included with copies of the recorded AUL and the tear sheet of the legal notice of the AUL as published in the local newspaper.

If you have any questions or comments, please do not hesitate to contact me at (617) 328-9229.

Very truly yours,  
GANNETT FLEMING, INC.

  
Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP





**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

**3 - 245**

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name: **NATIONAL LEAD CO FMR**

2. Street Address: **800 ALBANY AVE**

3. City/Town: **ROXBURY**

4. ZIP Code: **02119-0000**

5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

- a. Tier 1A     b. Tier 1B     c. Tier 1C     d. Tier 2

6. If a Tier I Permit has been issued, provide Permit Number: \_\_\_\_\_

**B. THIS FORM IS BEING USED TO: (check one)**

1. Submit a certified copy of a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.

2. Submit an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** has been filed pursuant to 310 CMR 40.1080.

3. Submit a certified copy of an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081

4. Submit a certified copy of a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).

5. Submit a certified copy of a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).

6. Submit a certified copy of a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.

7. Submit a certified copy of an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).

8. Submit a certified copy of a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).

9. Submit a certified copy of a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).

10. Submit a certified copy of a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

11. Provide Additional RTNs:

a. Check here if this AUL Submittal covers additional Release Tracking Numbers (RTNs).

b. Provide the additional Release Tracking Number(s) **3 - 25594**

**-**

(All sections of this transmittal form must be filled out unless otherwise noted above.  
**BWSC113A** is required for all submittals listed above)



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

**3 - 245**

**C. AUL INFORMATION:**

1. Document (per Section B) Recording and/or Registration Information:

a. Name of Registry of Deeds and/or Land Registration Office: \_\_\_\_\_

b. Book and Page Number and/or Document Number: \_\_\_\_\_

c. Date of recording and/or registration: \_\_\_\_\_

mm/dd/yyyy

2. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No     b. Yes    If yes, then fill out address section below.

3. Street Address: \_\_\_\_\_

4. City/Town: \_\_\_\_\_ 5. ZIP Code: \_\_\_\_\_

**D. PERSON SUBMITTING AUL TRANSMITTAL FORM:**

1. Check all that apply:     a. change in contact name     b. change of address     c. change in the person undertaking response actions

2. Name of Organization: **CJ CROSSTOWN ASSOCIATES LLC**

3. Contact First Name: **PETER** 4. Last Name: **CAMERON**

5. Street: **150 MOUNT VERNON STREET** 6. Title: \_\_\_\_\_

7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **02125-0000**

10. Telephone: **6178227357** 11. Ext.: \_\_\_\_\_ 12. FAX: \_\_\_\_\_

13. Is the person described in this section the owner of the property?

- a. Yes     b. No , if checked then Section G must be filled out by at least one owner.  
 c. Check here if providing names and addresses of any additional owners in an attachment.

**E. RELATIONSHIP TO DISPOSAL SITE OF PERSON SUBMITTING AUL TRANSMITTAL FORM: (check one)**

1. RP or PRP     a. Owner     b. Operator     c. Generator     d. Transporter  
 e. Other RP or PRP Specify: **OTHER PRPS**

2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

4. Any Other Person Submitting AUL Specify: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Site Cleanup**

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

3 - 245

**F. REQUIRED ATTACHMENT AND SUBMITTALS:**

1. Check here to certify that notice of the proposed Activity and Use Limitation (AUL) was given to all record-interest holders, if any, in accordance with 310 CMR 40.1074(1)(e), via certified mail.
- a. Check here if there were no record interest holders.      b. Date of certified mailing: 07/20/2007  
mm/dd/yyyy
- c. Check here to certify that names and addresses of all record holders notified is attached.
2. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a copy of the AUL was/will be provided to the Chief Municipal Officer, the Board of Health, the Zoning Official, and the Building Code Enforcement Official in the community(ies) where the the property subject to such Activity and Use Limitation is located.
3. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a Legal Notice was/will be published in a newspaper with circulation in the community(ies) where the property subject to the AUL is located.
4. Check here to certify that within 7 days of publishing a Legal Notice in a newspaper with circulation in the community(ies) where the property subject to the AUL is located, a copy of the notice was/will be submitted to DEP.
5. Check here to certify that within 30 days of recording and/or registering the AUL, including amending, releasing or terminating the AUL, a certified copy of the AUL, including the LSP Opinion containing the material facts, data, and other information, will be submitted to DEP.
6. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Address/Location Aid. Send corrections to the DEP Regional Office.
7. If an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

**G. CERTIFICATION OF OWNER OF PROPERTY, IF NOT PERSON SUBMITTING AUL TRANSMITTAL FORM:**

1. I, John F. Palmieri, attest under the pains and penalties of perjury that I am the owner of said property(ies), subject to the AUL

Signature

3. Date: 01/23/2008  
mm/dd/yyyy

4. Name of Organization: Boston Redevelopment Authority

5. Contact First Name: John F.      6. Last Name: Palmieri

7. Street: One City Hall Square      8. Title: Director

9. City/Town: Boston      10. State: MA      11. ZIP Code: 02201-1007

12. Telephone: 617-722-4300      13. Ext: 4201      14. FAX: 617-248-1937



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

**BWSC113**

**ACTIVITY & USE LIMITATION (AUL) TRANSMITTAL FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

**3 - 245**

**H. CERTIFICATION OF PERSON MAKING SUBMITTAL:**

1. I, **PETER CAMERON**,

attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Pursuant to 310 CMR 40.1074 (1)(f), I also hereby certify under penalties of perjury, that either I (if person submitting the AUL Transmittal Form is the property owner), or

**BOSTON REDEVELOPMENT AUTHORITY, JOHN F. PALMIERI - DIRECTOR**

2. Name of Property Owner

am/is identified on the Notice of AUL as the owner of the property subject to the AUL, owned such property on the date that the AUL was recorded and /or registered

3. By: 

Signature

4. Title: **Project Director**

5. For: **CJ CROSSTOWN ASSOCIATES LLC**

(Name of person or entity recorded in Section D)

6. Date: \_\_\_\_\_

mm/dd/yyyy

7. Check here if the address of the person providing certification is different from address recorded in Section D.

8. Street: \_\_\_\_\_

9. City/Town: \_\_\_\_\_ 10. State: \_\_\_\_\_ 11. ZIP Code: \_\_\_\_\_

12. Telephone: \_\_\_\_\_ 13. Ext.: \_\_\_\_\_ 14. FAX: \_\_\_\_\_

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY):

## **CURRENT HOLDERS OF RECORD INTEREST**

### **PARCEL 200-A1 – Hotel – PHASE I**

DEVELOPER: GROUND LESSEE – HOTEL PARCEL; AND MANAGER OF CROSSTOWN CENTER COMMON AREA LLC:	Crosstown Center Hotel LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC AND MEMBER OF CROSSTOWN CENTER OFFICE LLC:	CJ Crosstown LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CJ CROSSTOWN LLC:	Joseph E. Corcoran Family Trust c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 021250 ATTN: Mr. Robert Flack
	The Glenwood Millennium Trust c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 02125, ATTN: Mr. Robert Flack
MANAGER OF CJ CROSSTOWN LLC	Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	Crosstown Developers (Hotel), LLC c/o The Primary Group 60 State Street, Suite 1500 Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN	The Primary Corporation

DEVELOPERS(HOTEL) LLC	Kirk A. Sykes 60 State Street, Suite 1500 Boston, MA 02109-1803
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	Thomas F. Welsh & Associates, Inc. Thomas F. Welch 101 Federal Street Suite 1900 Boston, MA 02110
MANAGER OF CROSSTOWN DEVELOPERS (HOTEL) LLC	Development by Design Eugene Sisco 115 Peases Point Way Edgartown, MA 02539
MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CROSSTOWN CENTER OFFICE LLC	Crosstown Developers (Office) LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
FEE OWNER, GROUND LESSOR AND SUBORDINATE LENDER:	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
BOND UNDERWRITER:	RBC Dain Rauscher Inc. One Beacon Street Boston, MA 02108 ATTN: Tobias Yarmolinsky, Sr. VP
BOND TRUSTEE:	Wachovia Bank, N.A. 200 Berkeley Street, 17 m Floor Boston, MA 02116 ATTN: Timothy Donmoyer  With a copy to:

	Ruth E. Fitch, Esq. Palmer & Dodge 111 Huntington Avenue Boston, MA 02199
BOND ISSUER	City of Boston, acting by and through its Industrial Development Financing Authority 2201 Washington Street Boston, MA 02119 ATTN: Executive Director
SUBORDINATE LENDER:	Boston Connects, Inc. 2201 Washington Street Roxbury, MA 02119 ATTN: President, Empowerment Zone Board
PARKING TENANT	Medical Academic and Scientific Community Organization, Inc. 375 Longwood Avenue Boston, MA 02215 ATTN: General Counsel  With a copy to  Robert Tuchman Wilmer Cutler Pickering Hale and Dorr 60 State Street Boston, MA 02109
VERIZON EASEMENT:	Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager
KEYSPAN EASEMENT:	KeySpan Energy Delivery New England 201 Rivermore Street West Roxbury, MA 02132 Att: Frank Duggan, Key Account Executive  Keyspan Energy Delivery New England One Beacon Street Boston, MA 02108 Att: Thomas O'Neill, Esq., Senior Counsel
BECO/NSTAR EASEMENT	Boston Edison Company Nstar 1165 Massachusetts Avenue Dorchester, MA 02125 Att: Rights and Permits Department
NOTICE OF PARKING LEASE	Beth Israel Deaconess Medical Center 300 Brookline Avenue

	<p>Boston, MA 02213 ATTN: Paul Levy, CEO</p> <p>With a copy to:</p> <p>Mark Waxman Foley &amp; Lardner LLP 111 Huntington Ave. Boston, MA 02199</p>
NOTICE OF PARKING LEASE AND TENANT OF PARCEL 200-C1	<p>The Brigham and Women's Hospital, Inc. 75 Francis Street, Boston, MA 02115 ATTN: Director of Real Estate Department</p> <p>With a copy to:</p> <p>Office of General Counsel Partners Healthcare System, Inc. 50 Staniford Street 10<sup>th</sup> Floor Boston, MA 02114</p>
NOTICE OF PARKING LEASE	<p>Dana Farber Cancer Institute, Inc. 44 Binney Street Boston, MA 02115 ATTN: Chief Operating Officer</p> <p>With a copy to: Dana Farber Cancer Institute, Inc. 44 Binney Street Boston, MA 02115 ATTN: General Counsel</p>
CONSTRUCTION	<p>CorJen Construction LLC c/o Corcoran Jennison Company, Inc. 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack</p>

**PARCEL 200-B – Harbor Trail – PHASE I**

DEVELOPER: GROUND LESSEE – HARBOR TRAIL PARCEL	Crosstown Center Common Area LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
FEE OWNER AND GROUND LESSOR	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
MANAGER AND HOTEL MEMBER OF CROSSTOWN CENTER COMMON AREA LLC; MEMBER OF CROSSTOWN CENTER OFFICE LLC:	Crosstown Center Hotel LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
OFFICE MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	CJ Crosstown LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER MANAGER OF CROSSTOWN CENTER HOTEL LLC	Crosstown Developers (Hotel), LLC c/o The Primary Group 60 State Street, Suite 1500 Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	The Primary Corporation The Primary Group 60 State Street, Suite 1500

	Boston, MA 02109-1803 ATTN: Kirk A. Sykes
MANAGER OF CROSSTOWN DEVELOPERS(HOTEL) LLC	Thomas F. Welsh & Associates, Inc. Thomas F. Welch 101 Federal Street Suite 1900 Boston, MA 02110
MANAGER OF CROSSTOWN DEVELOPERS (HOTEL) LLC	Development by Design Eugene Sisco 115 Peases Point Way Edgartown, MA 02539
MEMBER OF CROSSTOWN CENTER COMMON AREA LLC	Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MEMBER OF CROSSTOWN CENTER OFFICE LLC	Crosstown Developers (Office) LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center - Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
VERIZON EASEMENT:	Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager
KEYSPAN EASEMENT:	KeySpan Energy Delivery New England 201 Rivermore Street West Roxbury, MA 02132 Att: Frank Duggan, Key Account Executive  Keyspan Energy Delivery New England One Beacon Street Boston, MA 02108 Att: Thomas O'Neill, Esq., Senior Counsel
BECO/NSTAR EASEMENT	Boston Edison Company Nstar 1165 Massachusetts Avenue Dorchester, MA 02125 Att: Rights and Permits Department

**PARCELS 200-C1 and 200-C2 – Office and Parking – PHASE II**

GROUND TENANT	MEPT Crosstown Center Office LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MANAGING MEMBER OF TENANT	NewTower Trust Company, Trustee of NewTower Trust Company Multi-Employer Property Trust 3 Bethesda Metro Center Suite 1600 Bethesda, MD 20814 ATTN: Patrick Mayberry, President
FEE OWNER AND GROUND LESSOR	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
PARKING GARAGE TENANT	Crosstown Center Garage LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
TENANT - PARCELS 200-D1 and 200-D2	Crosstown Center Office II LLC c/o Corcoran Jennison Company, Inc. Bayside Office Center – Suite 500 150 Mount Vernon Street Boston, MA 02125 ATTN: Mr. Robert Flack
MORTGAGE BETWEEN BRA AND PUBLIC FACILITIES COMMISSION	City of Boston Public Facilities Commission 26 Court Street Boston, MA 02108 ATTN: Director of the Department of Neighborhood Development
CONSENT AND SUBORDINATION AGREEMENT	City of Boston Public Facilities Commission Director of the Department of Neighborhood Development 26 Court Street Boston, MA 02108
OFFICE TENANT	Trustees of Boston University c/o V.P. Financial Affairs

	<p>Boston University 881 Commonwealth Avenue Boston, MA 02215</p> <p>Office of the General Counsel Boston University 125 Bay State Road Boston, MA 02215 Attention: General Counsel</p>
OFFICE TENANT	<p>Brigham and Women's Hospital Inc. c/o Partners HealthCare System, Inc. 55 Fruit Street Ruth Sleeper Hall Boston, MA 02114-2696 Attention: Director of Real Estate Department</p> <p>with copies to:</p> <p>Office of the General Counsel Partners HealthCare System, Inc. 50 Stamford Street, Suite 1000 Boston, MA 02114-2521</p> <p>Brigham and Women's Hospital, Lie. 75 Francis Street Boston, MA 02115 Attention: Vice President, Support Services</p> <p>And</p> <p>McCall &amp; Almy, Inc. One Post Office Square Boston, MA 02109 Attn: Partners HealthCare System, Inc.</p>
EASEMENT	<p>Boston Water and Sewer Commission 980 Harrison Avenue Boston, MA 02119 Attn: General Counsel</p>
VERIZON EASEMENT:	<p>Verizon New England, Inc. 185 Franklin Street Boston, MA 02110 ATT: Right of Way Manager</p>
KEYSPAN EASEMENT:	<p>KeySpan Energy Delivery New England 201 Rivermore Street</p>

	<p>West Roxbury, MA 02132 Att: Frank Duggan, Key Account Executive</p> <p>Keyspan Energy Delivery New England One Beacon Street Boston, MA 02108 Att: Thomas O'Neill, Esq., Senior Counsel</p>
BECO/NSTAR EASEMENT	<p>Boston Edison Company Nstar 1165 Massachusetts Avenue Dorchester, MA 02125 Att: Rights and Permits Department</p>

**PARCELS 200-D1 and 200-D2 -PHASE III**

FEE OWNER	Boston Redevelopment Authority 1 City Hall Square, 9 th Floor Boston, MA 02201-1007 Attention: Janet Carlson
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Attested hereto

*Francis M. Roache*  
Francis M. Roache  
Register of Deeds

Form 1075

**NOTICE OF ACTIVITY AND USE LIMITATION**

M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: Former National Lead Company  
DEP Release Tracking No. 3-0245

This Notice of Activity and Use Limitation ("Notice") is made as of the 19th day of December 2007, by the Boston Redevelopment Authority, a public body, corporate and politic, established pursuant to the provisions of Massachusetts General Laws Chapter 121B, as amended, having a usual place of business at One City Hall Plaza, Boston, Massachusetts 02201, together with its successors and assigns (collectively, "Owner").

**WITNESSETH:**

WHEREAS, the Owner is the owner in fee simple of that certain parcel of land located at and known as 7-17 Melnea Cass Boulevard, Boston, Suffolk County, Massachusetts 02118-2605 [800 Albany Street], with the buildings and improvements thereon, pursuant to an Order of Taking dated August 1, 2002 and recorded with the Suffolk County Registry of Deeds in Book 29152, Page 191;

WHEREAS, said parcel of land, which is more particularly bounded and described in Exhibit A, attached hereto and made a part hereof ("Property"), is subject to this Notice of Activity and Use Limitation. The Property is shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts" dated August 1, 2005 prepared by Harry R. Feldman" recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960;

WHEREAS, the Property comprises part of a disposal site as the result of a release of oil and hazardous material. Exhibit B is a sketch plan showing the relationship of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site (to the extent such boundaries have been established). Exhibit B is attached hereto and made a part hereof; and,

*Gordon Proctor LLP  
53 State Street  
Boston MA 02109*

WHEREAS, one or more response actions have been selected for the disposal site in accordance with M.G.L. c. 21e ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and hazardous material in soil, and (b) the restriction of certain activities occurring in, on, through, over or under the Property. The basis for such restrictions is set forth in an Activity and Use Limitation Opinion ("AUL Opinion") dated October 2, 2007 (which is attached hereto as Exhibit C and made a part hereof):

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in said AUL Opinion are as follows:

- 1) Activities and Uses Consistent with the AUL Opinion. The AUL Opinion provides that a condition of No Significant Risk to health, safety, public welfare or the environment exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Property:
  - a) Any non-residential uses of the Property, including those that are currently conducted;
  - b) Any construction projects that involve the excavation, relocation or removal of the contaminated soils, provided that (i) such a project is undertaken under the supervision of a Licensed Site Professional ("LSP") and in accordance with the performance standards for Utility Related Abatement Measures ("URAM") set forth in 310 CMR 40.0460 or the performance standards for a Release Abatement Measure ("RAM") set forth in 301 CMR 40.0440, as appropriate, and (ii) the construction personnel involved are OSHA-qualified in accordance with 40 C.F.R. §1910.120 and there is a Property-specific health and safety plan prepared for hazardous materials operations;
  - c) Other activities or uses of the Property not identified in Paragraph 2 as Activities and Uses Inconsistent with the AUL; and
  - d) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to human health, safety, public welfare or the environment than the activities and uses set forth in this paragraph.
- 2) Activities and Uses Inconsistent with the AUL Opinion. Activities and uses which are inconsistent with the objectives of this Notice of Activity and Use Limitation, and which, if implemented at the Property, may result in a significant risk of harm to health, safety, public welfare or the environment or in a substantial hazard, are as follows:
  - a) Use of the Property as a residence or for growing fruits or vegetables for human consumption;
  - b) Any Activity at the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils, unless such activity involves limited,

short-term utility or construction work conducted in accordance with (i) the performance standards for URAMs set forth in 310 CMR 40.0460, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such URAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any utility worker and/or construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways; and

- c) Construction of buildings, building additions, or other work, specifically within the Property boundaries, that is reasonably likely to result in excavation, relocation or removal of, the contaminated soils, unless such activity is conducted in accordance with (i) the performance standards for RAMs as set forth in 310 CMR 40.0440, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such RAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.
- 3) Obligations and Conditions Set Forth in the AUL Opinion. If applicable, obligations and/or conditions to be undertaken and/or maintained at the Property to maintain a condition of No Significant Risk, as set forth in the AUL Opinion, shall include the following:
  - a) Any activity at or use of the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils requires preparation and implementation of a Health and Safety Plan under the guidance of an LSP. At a minimum, the Health and Safety Plan must inform underground utility workers and other workers who may come into contact with soils in the AUL area of (1) the nature and hazards of the contaminants identified in the soils, (2) potential exposure routes, (3) measures to prevent exposure, (4) protective clothing requirements, and (4) any other health and safety measures appropriate for the activity or use;
  - b) Any excavation, relocation or removal of the contaminated soils at the Property requires preparation and implementation of a written Excavation Plan and a written Soil/Fill Material Management Plan under the guidance of an LSP. At a minimum, the Excavation Plan must (1) describe the soil stockpile storage methods that will be used to prevent accidental exposure to the excavated soils, including indirect exposure via surface water runoff or fugitive dust emissions, (2) contain procedures to limit access to the excavated soils and the excavation area by Property workers not covered by the Health and Safety Plan, children, Propcrty abutters or accidental trespassers, (3) contain procedures for characterizing and disposing excavated soils, and (4) provide for the restoration of the excavated area as soon as practicable. At a minimum, the Soil/Fill Material Management Plan must describe the soil excavation, handling, storage, reuse, transport and disposal procedures to be used during such excavation, relocation or removal activities, including the engineering controls and any air monitoring procedures necessary to ensure that

human or environmental receptors are not impacted by fugitive dust, particulates, or exposure to contaminated soil or fill material; and

- c) Any soils removed from the Property must be characterized and disposed of in accordance with federal, state and local regulations.
- 4) **Proposed Changes in Activities and Uses.** Any proposed changes in activities and uses at the Property that may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by an LSP who shall render an Opinion, in accordance with 310 CMR 40.1080 *et seq.*, as to whether the proposed changes will present a significant risk of harm to health, safety, public welfare or the environment. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.
- 5) **Violation of a Response Action Outcome.** The activities, use and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk or harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by an LSP in accordance with 310 CMR 40.1080 *et seq.*, and without additional response actions, if necessary, to achieve or maintain a condition of No Significant Risk or to eliminate substantial hazards.

If the activities, uses and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by an LSP in accordance with 310 CMR 40.1080 *et seq.*, the owner or operator of the Property subject to this Notice at the time that the activities, uses and/or exposure change, shall comply with the requirements set forth in 310 CMR 40.0020

- 6) **Incorporation Into Deeds, Mortgages, Leases and Instruments of Transfer.** This Notice shall be incorporated either in full or by reference into all deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed.

[The remainder of this page is intentionally blank.]

Owner hereby authorizes and consents to the filing and recordation of this Notice, said Notice to become effective when executed under seal by the undersigned LSP, and recorded with the appropriate Registry of Deeds.

WITNESS the execution hereof under seal this 19<sup>th</sup> day of December, 2007.

BOSTON REDEVELOPMENT AUTHORITY, Owner

  
By: John F. Palmieri  
Title: Director

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

Dec 19, 2007

On this 19<sup>th</sup> day of December, 2007, before me, the undersigned notary public, personally appeared John F. Palmieri, proved to me through satisfactory evidence of identification, which was personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose as Director of the Boston Redevelopment Authority, a public body, corporate and politic, established pursuant to the provisions of Massachusetts General Laws Chapter 121B, as amended.

Ellen T. Harrower (official signature and seal of notary)

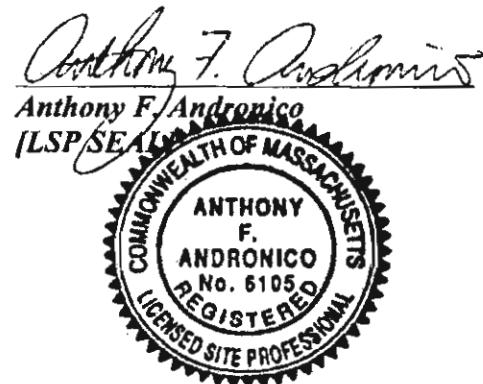


ELLEN T. HARROWER  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 21, 2008

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The undersigned LSP hereby certifies that he executed the aforesaid Activity and Use Limitation Opinion attached hereto as Exhibit C and made a part hereof and that in his Opinion this Notice of Activity and Use Limitation is consistent with the terms set forth in said Activity and Use Limitation Opinion.

Date: 1/30/08



COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

1/30/, 2008

On this 30 day of January, 2008, before me, the undersigned notary public, personally appeared Anthony F. Andronico, proved to me through satisfactory evidence of identification, which were MDL 55396246, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose as Licensed Site Professional for Gannett Fleming, Inc. (a corporation).

Elizabeth A. Flynn (official signature and seal of notary)

Upon recording, return to:  
 Boston Redevelopment Authority  
 Attn: Janet Carlson  
 One City Hall Plaza  
 Boston, MA 02201

**EXHIBIT A**

**AUL Parcel Descriptions**



**Activities and Use Limitation Area 200-A1**  
(Lease Parcel 200-A1)

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the southeasterly corner of the parcel at a point on the westerly sideline of Massachusetts Avenue. Said point being approximately 40 feet northwesterly from the intersection of the northerly sideline of Melnea Cass Boulevard with the westerly sideline of Massachusetts Avenue;

Thence running S 42° 52' 55" W, a distance of 162.91 feet to a point of curvature;

Thence running southwesterly along a curve to the right, having a radius of 1160.00 feet, a length of 267.99 feet to a point of compound curvature;

Thence running southwesterly along a curve to the right, having a radius of 1494.00 feet, a length of 165.35 feet to a point being the southeasterly corner of Lease Parcel 200-C2;

Thence turning and running N 42° 26' 53" W, a distance of 11.45 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 0.70 feet to a point;

Thence turning and running N 42° 26' 53" W, a distance of 117.88 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 273.35 feet to a point;

Thence turning and running S 42° 26' 53" E, a distance of 0.29 feet to a point;

Thence turning and running N 47° 33' 07" E, a distance of 11.68 feet to a point;

Thence turning and running N 42° 26' 53" W, a distance of 29.42 feet to a point of curvature;

Thence running northwesterly along a curve to the left, having a radius of 52.00 feet, a length of 28.23 feet to a point of reverse curvature;

Thence running northwesterly along a curve to the right, having a radius of 206.00 feet, a length of 85.33 feet to a point of tangency;

Thence running N 49° 49'18" W a distance of 14.67 feet to a point of curvature;

Thence running westerly along a curve to the left having a radius of 14.00 feet, a length of 19.33 feet to a point of non-tangency on the southerly sideline of Albany Street;

The preceding eleven courses run along the easterly and southerly boundary of Lease Parcel 200-C2 and Lease Parcel 200-D1.

Thence turning and running along the southerly sideline of Albany Street N 39° 33'18" E a distance of 29.38 feet to a point of curvature;

Thence running along the southerly sideline of Albany Street along a curve to the right having a radius of 800.00 feet, a length of 40.75 feet to a point of non-tangency;

Thence turning and running southeasterly along a curve to the left having a radius of 15.00 feet, a length of 15.73 feet to a point of tangency;

Thence running S 49° 10' 57" E, a distance of 20.00 feet;

Thence turning and running S 52° 51' 10" E, a distance of 41.50 feet;

Thence turning and running S 57° 25' 16" E, a distance of 14.74 feet;

Thence turning and running S 41° 45' 13" E, a distance of 30.22 feet;

Thence turning and running N 48° 14' 47" E, a distance of 120.99 feet to a point of curvature;

Thence running easterly along a curve to the right, having a radius of 40.00 feet, a length of 58.28 feet to a point of tangency;

Thence turning and running S 48° 16' 47" E, a distance of 39.76 feet;

Thence turning and running N 48° 14' 47" E, a distance of 100.59 feet to a point on the westerly sideline of Massachusetts Avenue;

The preceding nine courses run along the easterly and southerly boundary of Lease Parcel 200-C1.

Thence turning and running S 42° 27' 54" E, along said westerly sideline of Massachusetts Avenue, a distance of 5.81 feet;

Thence turning and running S 48° 47' 58" E, along said westerly sideline of Massachusetts Avenue, a distance of 128.08 feet to the point of beginning.

Containing an area of 107,916 square feet or 2.477 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job # 10189 AUL AREA 200-AI

**Activities and Use Limitation Area 200-B**  
(Lease Parcel 200-B)

A certain lease parcel situated in the city of Boston, Suffolk County, Commonwealth of Massachusetts comprised of a portion of Lot 200 and a parcel, HT, created by the discontinuance of a portion of Melnea Cass Boulevard, Hampden Street, and Massachusetts Avenue bounded and described as follows:

Beginning at the southeasterly corner of lease parcel 200A at a jog in the westerly sideline of Massachusetts Avenue. Said point being approximately 30 feet northwesterly of the intersection of the northerly sideline of Melnea Cass Boulevard with said westerly sideline of Massachusetts Avenue;

Thence running northeasterly along the sideline of Massachusetts Avenue N 42° 52' 55"E, a distance of 7.10 feet to a point on the westerly sideline of Massachusetts Avenue;

Thence turning and running S 48° 47' 58" E, a distance of 29.87 feet along said westerly sideline of Massachusetts Avenue to a point of curvature;

Thence running along said westerly sideline of Massachusetts Avenue on a curve to the right, having a radius of 40.00 feet, a length of 63.72 feet to a point of compound curvature on said northerly sideline of Melnea Cass Boulevard;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 1400.00 feet, a length of 108.50 feet to a point of compound curvature;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 2000.00 feet, a length of 336.13 feet to a point of compound curvature;

Thence running southwesterly along said northerly sideline of Melnea Cass Boulevard on a curve to the right, having a radius of 1300.00 feet, a distance of 246.42 feet to a point of tangency;

Thence running S 67° 24' 05" W, along said northerly sideline of Melnea Cass Boulevard, a distance of 67.57 feet to a point of curvature at the intersection of said northerly sideline of Melnea Cass Boulevard and the easterly sideline of Hampden Street;

Thence running along a curve to the right, having a radius of 25.00 feet, a length of 31.61 feet to a point of tangency on said easterly sideline of Hampden Street;

Thence running N 40° 08' 37" W, along said easterly sideline of Hampden Street, a distance of 41.42 feet to a point of non-tangency;

Thence turning and running northeasterly along the sideline of Hampden Street along a curve to the left having a radius of 1494.00 feet a length of 8.64 feet to the easterly sideline of Hampden Street;

Thence continuing northeasterly along a curve to the left, having a radius of 1494.00 feet, a length of 362.15 feet to a point of compound curvature;

Thence running northeasterly along a curve to the left, having a radius of 1160.00 feet, a length of 267.99 feet to a point of tangency;

Thence running N 42° 52' 55" E, a distance of 162.91 feet to the point of beginning.

Containing an area of 48,132 square feet or 1.105 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189, AUL AREA 200-B

**Activities and Use Limitation Area 200-C1**  
**(Lease Parcel 200-C1)**

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the northeasterly corner of the parcel at a point of tangency on the westerly sideline of Massachusetts Avenue. Said point being approximately 25 feet southeasterly of the intersection of said westerly sideline of Massachusetts Avenue and the southerly sideline of Albany Street;

Thence turning and running S 47° 32' 06" W along said westerly sideline of Massachusetts Avenue, a distance of 12.00 feet;

Thence turning and running S 42° 27' 54" E along said westerly sideline of Massachusetts Avenue, a distance of 15.00 feet;

Thence turning and running N 47° 32' 06" E along said westerly sideline of Massachusetts Avenue, a distance of 12.00 feet;

Thence turning and running S 42° 27' 54" E along said westerly sideline of Massachusetts Avenue, a distance of 158.99 feet;

Thence tuning and running S 48° 14' 47" W, a distance of 100.59 feet;

Thence turning and running N 48° 16' 47" W, a distance of 39.76 feet to a point of curvature;

Thence running along a curve to the left, having a radius of 40.00 feet, a length of 58.28 feet to a point of tangency;

Thence turning and running S 48° 14' 47" W, a distance of 120.99 feet;

Thence turning and running N 41° 45' 13" W, a distance of 30.22 feet;

Thence turning and running N 57° 25' 16" W, a distance of 14.74 feet;

Thence turning and running N 52° 51' 10" W, a distance of 41.50 feet;

Thence running N 49° 10' 57" W, a distance of 20.00 feet to a point of curvature;

Thence running along a curve to the right, having a radius of 15.00 feet, a length of

15.73 feet to a point on a curve on the southerly sideline of Albany Street;

The preceding nine courses run along the southerly and westerly boundary of Lease Parcel 200-A1;

Thence running northeasterly along said southerly sideline of Albany Street along a curve to the right, having a radius of 800.00 feet, a length of 48.55 feet to a point of tangency;

Thence running N 45° 57' 02" E along said southerly sideline of Albany Street, a distance of 38.40 feet;

Thence turning and running N 56° 02' 59" E along the southerly sideline of Albany Street, pursuant to a widening of said street a distance of 37.03 feet;

Thence turning and running N 45° 57' 02" E along said proposed southerly sideline of Albany Street, a distance of 123.08 feet to a point of curvature at the intersection of said proposed southerly sideline of Albany Street and said westerly sideline of Massachusetts Avenue;

Thence running along said westerly sideline of Massachusetts Avenue on a curve to the right, having a radius of 25.00 feet, a length of 39.96 feet to the point of beginning.

Containing an area of 40,732 square feet or 0.935 acre as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**Activities and Use Limitation Area 200-C2**  
**(Lease Parcel 200-C2)**

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the southerly sideline of Albany Street which is the intersection of the northeasterly sideline of Hampden Street with the southerly sideline of Albany, thence running along said sideline N 53° 40' 41" E, a distance of 73.81 feet, thence turning and running S 37° 28' 04" E, a distance of 82.94 feet to the point of beginning;

Thence turning and running N 47° 33' 07" E, a distance of 329.38 feet along the southeasterly boundary of Lease Parcel 200-D1 to a point on a curve on the southwesterly boundary of Lease Parcel 200-A1;

Thence turning and running southeasterly along a curve to the left, having a radius of 206.00 feet, a length of 37.83 feet to a point of reverse curvature;

Thence running along a curve to the right, having a radius of 52.00 feet, a length of 28.23 feet a point of tangency;

Thence turning and running S 42° 26' 51" E , a distance of 29.42 feet;

Thence turning and running S 47° 33' 07" W, a distance of 11.68 feet;

Thence turning and running N 42° 26' 53" W; a distance of 0.29 feet;

Thence turning and running S 47° 33' 07" W, a distance of 273.35 feet;

Thence turning and running S 42° 26' 53" E, a distance of 117.88 feet;

Thence turning and running S 47° 33' 07" W, a distance of 0.70 feet;

Thence turning and running S 42° 26' 53" E, a distance of 11.45 feet to a point on a curve on the northwesterly boundary of Lease Parcel 200-B 1;

The preceding nine courses run along the easterly and southerly boundary of Lease Parcel 200-A1.

Thence turning and running along Lease Parcel 200-B, westerly along a curve to the right, having a radius of 1494.00 feet, a length of 135.63 feet to a point at the intersection of Lease Parcels 200-B1, 200-D2, and 200-C2;

Thence turning and running N 42° 26' 53" W, a distance of 171.81 feet along the northeasterly boundary of Lease Parcel 200-D2 to a point on the southeasterly boundary of land now or formerly of Boston Edison Company;

Thence turning and running N 52° 31' 56" E, a distance of 60.89 feet;

Thence turning and running N 37° 28' 04" W, a distance of 12.06 feet along land now or formerly Boston Edison Company to the point of beginning.

Containing an area of 50,467 square feet or 1.159 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189 AULAREA 200-C2

**Activities and Use Limitation Area 200-D1**  
**(Lease Parcel 200-D1)**

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the southerly sideline of Albany Street which is the intersection of the northeasterly sideline of Hampden Street with the southerly sideline of Albany, thence running along said sideline N 53° 40' 41" E, a distance of 73.81 feet to the point of beginning;

Thence turning and running N 53° 40' 41" E along said southerly sideline of Albany Street, a distance of 50.01 feet;

Thence turning and running N 52° 31' 55" E along said southerly sideline of Albany Street, a distance of 111.93 feet to a point of curvature;

Thence running northeasterly along said southerly sideline of Albany Street along a curve to the left, having a radius of 534.00 feet, a length of 120.95 feet to a point of tangency;

Thence running N 39° 33' 18" E along said southerly sideline of Albany Street, a distance of 14.08 feet to a point of curvature;

Thence running along a curve to the right, having a radius of 14.00 feet, a length of 19.33 feet a point of tangency;

Thence running S 49° 49' 18" E, a distance of 14.67 feet to a point of curvature;

Thence running southeasterly along a curve to the left, having a radius of 206.00 feet, a length of 47.50 feet to a point;

The previous three courses run along the southwesterly boundary of Lease Parcel 200-A1.

Thence turning and running S 47° 33' 07" W, a distance of 329.38 feet along the northwesterly boundary of Lease Parcel 200-C2 to a point;

Thence turning and running N 37° 28' 04" W, a distance of 82.94 feet along land now or formerly Boston Edison Company to the point of beginning.

Containing an area of 22,646 square feet or 0.520 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

Job #10189 AUL AREA 200-DI

**Activities and Use Limitation Area 200-D2**  
(Lease Parcel 200-D2)

An activities and use limitation area situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Commencing at a point of tangency on the northerly sideline of Melnea Cass Boulevard which is the intersection of the northeasterly sideline of Hampden Street with the northerly sideline of Melnea Cass Boulevard, thence running along said sideline N 40° 10' 44" W, a distance of 35.48 feet, to the point of beginning;

Thence running N 40° 10' 44" W, along said easterly sideline of Hampden Street, a distance of 154.16 feet;

Thence turning and running N 52° 31' 56" E, a distance of 51.08 feet along the southerly boundary of land now or formerly of Boston Edison Company;

Thence turning and running S 42° 26' 53" E, a distance of 171.81 feet along the westerly boundary of Lease Parcel 200-C2 to a point on the northerly boundary of Lease Parcel 200-B;

Thence turning and running along said boundary, westerly along a curve to the right, having a radius of 1494.00 feet, a length of 61.17 feet to the point of beginning.

Containing an area of 8,842 square feet or 0.203 acres as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**Activities and Use Limitation Area AW**  
**(Parcel AW)**

An activities and use limitation area of land situated in the City of Boston, Suffolk County, Commonwealth of Massachusetts bounded and described as follows:

Beginning at the southeasterly corner of the parcel at a point of curvature on the westerly sideline of Massachusetts Avenue. Said point being approximately 25 feet southeast of the intersection of said westerly sideline of Massachusetts Avenue and the southerly sideline of Albany Street;

Thence running northwesterly along the southerly sideline of Albany Street pursuant to a widening along a curve to the left, having a radius of 25.00 feet; a length of 39.96 feet to a point of tangency;

Thence turning and running along said southerly sideline of Albany Street S 45° 57' 02" W, a distance of 123.08 feet;

Thence turning and running along said southerly sideline of Albany Street S 56° 02' 59" W, a distance of 37.03 feet;

Thence turning and running N 45° 57' 02" E along the previous southerly sideline of Albany Street, a distance of 178.21 feet to a point of curvature at the intersection of said southerly sideline of Albany Street and said westerly sideline of Massachusetts Avenue;

Thence running along a curve to the right, having a radius of 7.00 feet, a length of 11.19 feet to a point of tangency on the westerly sideline of Massachusetts Avenue;

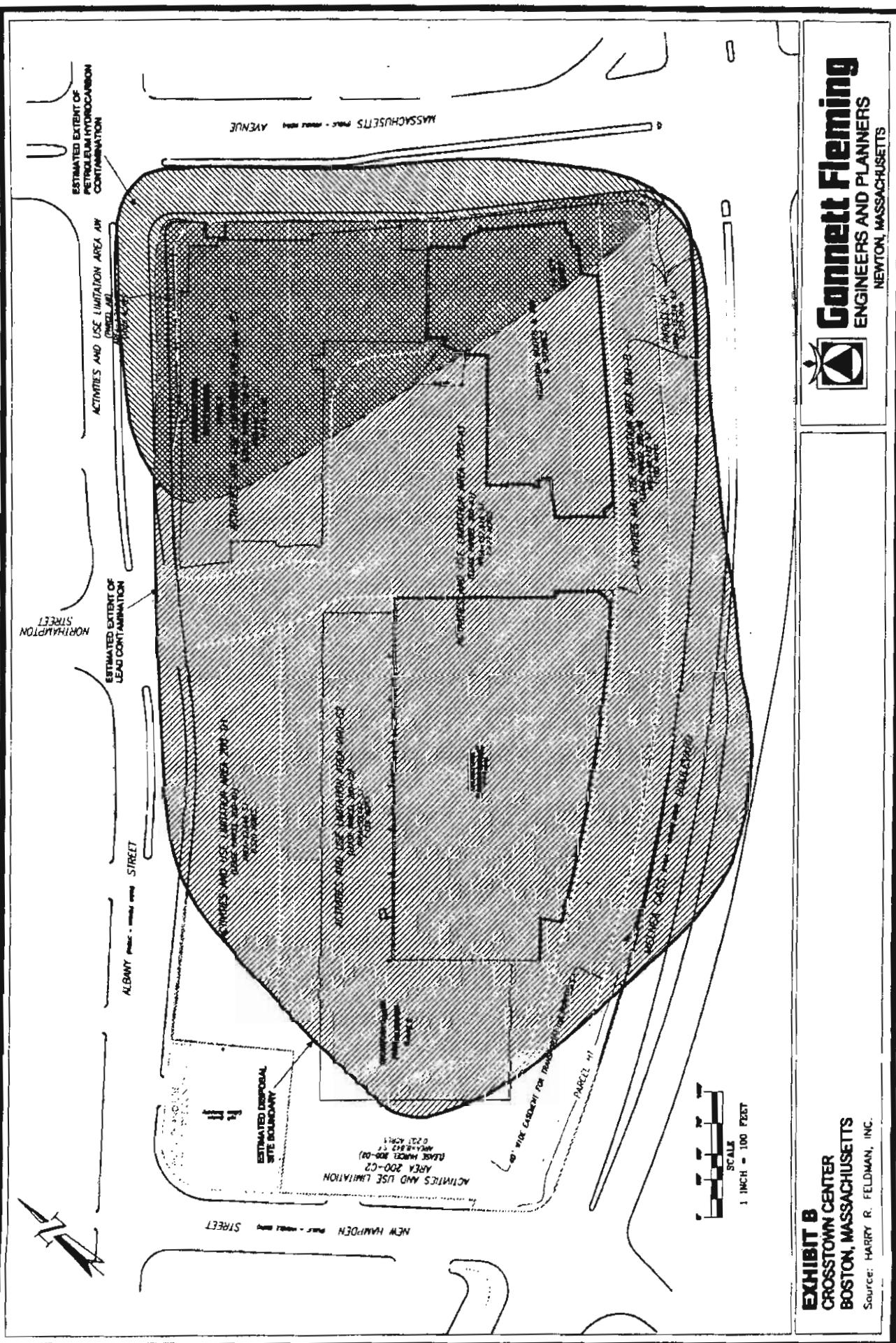
Thence running S 42° 27' 54" E along said previous westerly sideline of Massachusetts Avenue, a distance of 25.00 feet to the point of beginning.

Containing an area of 1,217 square feet or 0.028 acre as shown on a plan entitled "Revised Lease Parcels Plan, Crosstown Center, Boston, Massachusetts," dated August 1, 2005, prepared by Harry R. Feldman, and recorded with the Suffolk County Registry of Deeds in Book 38542, Page 78 as plan 2005-960, and a further plan entitled "Activities and Use Limitation Plan, Crosstown Center, Boston, Massachusetts," dated December 29, 2006, prepared by Harry R. Feldman, Inc., Land Surveyors.

**EXHIBIT B**

Relationship of Property Subject to the AUL  
to the Disposal Site Boundaries

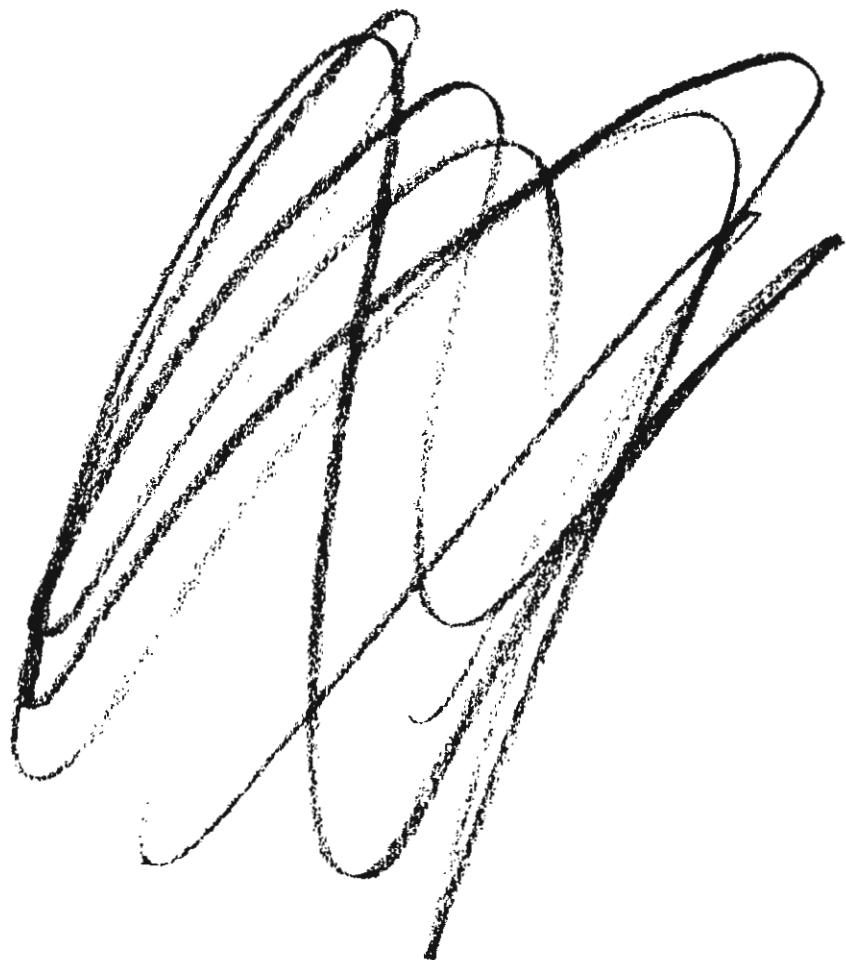




**EXHIBIT B**  
**CROSSTOWN CENTER**  
**BOSTON, MASSACHUSETTS**

**EXHIBIT C**

Activity and Use Limitation Opinion Narrative



## ACTIVITY AND USE LIMITATION OPINION

### 1.0 Introduction

This Licensed Site Professional (LSP) Opinion for the Notice of Activity and Use Limitation (AUL) was prepared by Anthony F. Andronico (LSP No. 6105) of Quincy, Massachusetts on behalf of CJ Crosstown LLC for a release at the Former National Lead Company site on Albany Street and Massachusetts Avenue in Boston, Massachusetts. This LSP Opinion was prepared in accordance with 310 CMR 40.1074 and (1) explains why implementation of the AUL is appropriate to maintain a level of No Significant Risk at the Property (as defined in the AUL), (2) describes activities and uses prohibited in the area of the Property to be subject to the AUL, (3) identifies permitted activities and uses in the AUL area, and (4) identifies conditions or obligations for the AUL area in order to maintain a level of No Significant Risk.

### 2.0 Property Background

During the early 1800s, the Property and surrounding area were part of a salt marsh for the South Bay. This entire area was filled with materials of unknown origin to prepare for development. Lead manufacturing occurred at the Property from the mid-to-late 1800s through the 1960s, and two different gasoline stations operated at the Property from the 1930s through the 1980s, one at the Massachusetts Avenue/Albany Street intersection and the other on Massachusetts Avenue. The National Lead Company, Boston Lead Manufacturing Company and Chadwick-Boston Lead Company all conducted operations at the Property, primarily paint pigment manufacturing. Plumbing equipment suppliers and other industries have also operated at the Property.

A review of historic maps indicates that the street layout in the area of the Property has changed extensively since the late 1970s. Following a 1978 land taking by the Boston Redevelopment Authority Economic Development and Industrial Commission, the construction of Melnea Cass Boulevard and the former Digital Equipment Corporation building in about 1979 resulted in a significant realignment of the Property's boundaries, including the abandonment of then-existing streets and businesses. The current Property boundaries encompass most of the area where the former lead manufacturing and other industrial operations occurred. Lead manufacturing took place along the northeastern intersection of the former Island and Hampden Streets, in the present-day western third of the Property. Other uses beyond the former boundaries of the lead manufacturing operations but within present-day Property boundaries included a lumber yard, a stone yard, a sheet metal and wood working shop, and a wagon shed on the eastern portion of the Property. As early as 1937, an auto body shop, two auto repair shops and two filling stations occupied the area southwest of the Albany Street/Massachusetts Avenue intersection, which is the present-day northwest corner of the Property. Another auto body shop occupied the area southeast of the former Southampton Street and Reading Street intersection, which is the present-day area along Melnea Cass Boulevard up to its intersection with Massachusetts Avenue.

The release at the Property has been assigned Massachusetts Department of Environmental Protection (MassDEP) Release Tracking No. 3-0245. Environmental assessments performed at the Property beginning in 1989 found elevated levels of metals (primarily lead), petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAHs) in soil, and further investigation was subsequently performed. In 2002, a Release Abatement Measure (RAM) Plan was filed with the

MassDEP, and remediation work commenced in support of Property redevelopment. The remediation included the on-site stabilization and off-site disposal of lead-contaminated soil and PAH and petroleum hydrocarbon-contaminated soil, and the removal of abandoned underground storage tanks that were encountered in the former gasoline station locations. Over 15,000 cubic yards of soil were removed from the Property during remediation. Post-remediation site characterization data is presented in an August 2006 Phase II Comprehensive Site Assessment (CSA) prepared by Gannett Fleming, Inc.

Although the remediation efforts significantly improved site conditions and reduced the levels of contaminants present, elevated levels of lead, PAHs and petroleum hydrocarbons remain at the Property. The CSA includes a Method 3 Risk Characterization, described in more detail below.

### **3.0 Summary of the Risk Characterization**

The results of the Method 3 Risk Characterization are the basis for the decision regarding the selection of an appropriate Response Action Outcome for the release at the Property pursuant to 310 CMR 40.1000. A summary of the Risk Characterization is presented below.

The Property was under active redevelopment at the time of the Risk Characterization. Construction of Phase I, consisting of a Hampton Inn Hotel and parking garage, had been completed, as had construction of the Harbor Trail at the Property. Phase II of construction was in progress, and Phase III plans had not been prepared. The expected site reuse was commercial, and under current and future conditions, receptors reasonably likely to be present on-site included commercial workers and customers, visitors, landscapers, utility workers and construction workers.

Based on the Property redevelopment plans, the Property was divided into four separate exposure units: Phases I, II and III of the development, and the Harbor Trail. The Risk Characterization determined that "No Significant Risk" of harm to human health exists at the Property for each receptor type considered in the risk characterization. It also determined that "No Significant Risk" of harm to safety, public welfare and the environment exists at the Property.

### **4.0 Use of the AUL to Maintain a Level of No Significant Risk**

As described in the Risk Characterization, a condition of No Significant Risk to human health, safety public welfare and the environment currently exists at the Property. However, this conclusion is based on the assumption that the Property will not be used for residential purposes or for the growing of fruits or vegetables for human consumption. (All other reasonably foreseeable site uses were considered.) In addition, because residual contamination was documented in soils, this AUL will also serve to provide appropriate notice to future Property users to exercise appropriate caution when handling soils, to ensure that unnecessary exposures do not occur, and that contaminated materials are handled appropriately.

## **5.0 Restricted Activities and Uses**

Activities and uses that are inconsistent with the objectives of this Notice of AUL, and that, if implemented at the Property, may result in a significant risk of harm to human health, safety, or public welfare, are as follows:

- 1) Use of the area defined in the AUL as the Property as a residence or for growing fruits or vegetables for human consumption.
- 2) Any Activity at the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils unless such activity involves limited, short-term utility or construction work conducted in accordance with (i) the performance standards for Utility Related Abatement Measures (URAM) set forth in 310 CMR 40.0460, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such URAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any utility worker and/or construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.
- 3) Construction of buildings, building additions, or other work, specifically within the Property boundaries, that is reasonably likely to result in the excavation, relocation or removal of the contaminated soils unless such activity is conducted in accordance with (i) the performance standards for a Release Abatement Measure (RAM) as set forth in 310 CMR 40.0440, and (ii) the Obligations and Conditions Set Forth in the AUL Opinion. Any such RAM must include Soil Management procedures pursuant to 310 CMR 40.0030 and all applicable worker Health and Safety practices pursuant to 310 CMR 40.0018. The Health and Safety practices must protect any construction worker and the general public with regard to Property-specific chemicals of concern and exposure pathways.

## **6.0 Acceptable Activities and Uses**

The AUL Opinion provides that a condition of No Significant Risk to health, safety, or public welfare exists for any foreseeable period of time (pursuant to 310 CMR 40.0000) so long as any of the following activities and uses occur on the Property:

- 1) Any non-residential uses of the Property, including those that are currently conducted;
- 2) Any construction projects that involve the excavation, relocation or removal of, the contaminated soils, provided that (i) such a project is undertaken under the supervision of an LSP and in accordance with the performance standards for URAMs set forth in 310 CMR 40.0460 or the performance standards for RAMS set forth in 301 CMR 40.0440, as appropriate, and (ii) the construction personnel involved are OSHA-qualified in accordance with 40 C.F.R. §1910.120 and there is a Property-specific health and safety plan prepared for hazardous materials operations;

- 3) Other activities or uses of the Property not identified in the AUL as inconsistent with the AUL; and
- 4) Such other activities or uses which, in the Opinion of an LSP, shall present no greater risk of harm to human health, safety, public welfare or the environment than the activities and uses set forth in this paragraph.

## **7.0 Obligations for the AUL Area**

If applicable, obligations and/or conditions to be undertaken and/or maintained at the Property to maintain a condition of No Significant Risk, as set forth in the AUL Opinion, shall include the following:

- 1) Any activity at or use of the Property that is reasonably likely to result in the excavation, relocation or removal of, the contaminated soils requires preparation and implementation of a written Health and Safety Plan under the guidance of an LSP. At a minimum, the Health and Safety Plan must inform underground utility workers and other workers who may come into contact with soils in the AUL area of (1) the nature and hazards of the contaminants identified in the soils, (2) potential exposure routes, (3) measures to prevent exposure, (4) protective clothing requirements, and (4) any other health and safety measures appropriate for the activity or use;
- 2) Any excavation, relocation or removal of, the contaminated soils (subsurface defined as greater than three (3) feet below ground surface) at the Property requires preparation and implementation of a written Excavation Plan and a written Soil/Fill Material Management Plan under the guidance of an LSP. At a minimum, the Excavation Plan must (1) describe the soil stockpile storage methods that will be used to prevent accidental exposure to the excavated soils, including indirect exposure via surface water runoff or fugitive dust emissions, (2) contain procedures to limit access to the excavated soils and the excavation area by Property workers not covered by the Health and Safety Plan, children, Property abutters or accidental trespassers, (3) contain procedures for characterizing and disposing excavated soils, and (4) provide for the restoration of the excavated area as soon as practicable. At a minimum, the Soil/Fill Material Management Plan must describe the soil excavation, handling, storage, reuse, transport and disposal procedures to be used during such excavation, relocation or removal activities, including the engineering controls and any air monitoring procedures necessary to ensure that human or environmental receptors are not impacted by fugitive dust, particulates, or exposure to contaminated soil or fill material; and
- 3) Any soils removed from the Property must be characterized and disposed of in accordance with federal, state and local regulations.

## **8.0 Summary and Conclusions**

This LSP Opinion has been prepared for implementation of a Notice of AUL for a release at the Former National Lead Company site on Albany Street and Massachusetts Avenue in Boston, Massachusetts. A Method 3 Risk Characterization indicates that restrictions on activities and

uses of this disposal site are required to achieve and maintain a condition of No Significant Risk to human health, safety or public welfare. In general, use of the Property for residential purposes, growing fruits or vegetables for human consumption, and activities and uses that may result in the excavation, relocation or removal of the contaminated at the Property are to be restricted.

LSP:

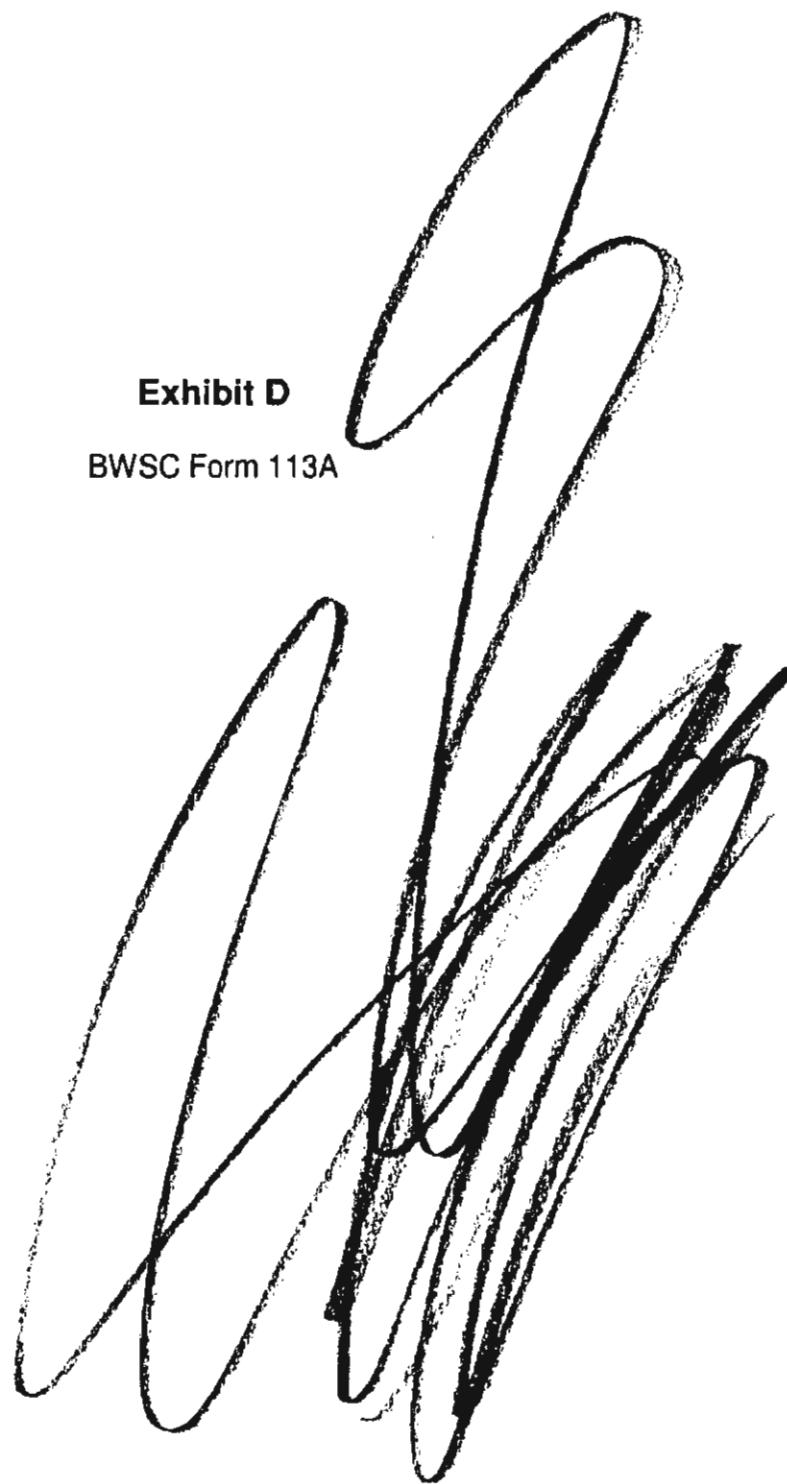
*Anthony F. Andronico*  
Anthony F. Andronico, LSP  
LSP No. 6105, Quincy, Massachusetts

DATE: October 2, 2007



**Exhibit D**

BWSC Form 113A





**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

BWSC113A ✓

**ACTIVITY & USE LIMITATION (AUL) OPINION FORM**

Pursuant to 310 CMR 40.1056 & 40.1070 - 40.1084 (Subpart J)

Release Tracking Number

3 - 245

RECEIVED  
MAR 01 2008  
NORTHEAST REGIONAL OFFICE  
DEP

**A. DISPOSAL SITE LOCATION:**

1. Disposal Site Name: **NATIONAL LEAD CO FMR**

2. Street Address: **800 ALBANY AVE**

3. City/Town: **ROXBURY**

4. ZIP Code: **02119-0000**

**B. THIS FORM IS BEING USED TO:** (check one)

- 1. Provide the LSP Opinion for a **Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1074.
- 2. Provide the LSP Opinion for an **Evaluation of Changes In Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement**, pursuant to 310 CMR 40.1080. Include BWSC113A as an attachment to BWSC113. Section A and C do not need to be completed.
- 3. Provide the LSP Opinion for an **Amended Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1081(4).
- 4. Provide the LSP Opinion for a **Partial Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(3).
- 5. Provide the LSP Opinion for a **Termination of a Notice of Activity and Use Limitation**, pursuant to 310 CMR 40.1083(1)(d).
- 6. Provide the LSP Opinion for a **Grant of Environmental Restriction**, pursuant to 310 CMR 40.1071.
- 7. Provide the LSP Opinion for an **Amendment of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1081(3).
- 8. Provide the LSP Opinion for a **Partial Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(2).
- 9. Provide the LSP Opinion for a **Release of a Grant of Environmental Restriction**, pursuant to 310 CMR 40.1083(1)(c).
- 10. Provide the LSP Opinion for a **Confirmatory Activity and Use Limitation**, pursuant to 310 CMR 40.1085(4).

(Unless otherwise noted above, all sections of this form (BWSC113A) must be completely filled out, printed, stamped, signed with black ink and attached as an exhibit to the AUL Document to be recorded and/or registered with the Registry of Deeds and/or Land Registration Office.)

**C. AUL INFORMATION:**

1. Is the address of the property subject to AUL different from the disposal site address listed above?

a. No     b. Yes    If yes, then fill out address section below.

2. Street Address: \_\_\_\_\_

3. City/Town: \_\_\_\_\_ 4. ZIP Code: \_\_\_\_\_



**Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup**

BWSC113A

Release Tracking Number

3 - 245

**ACTIVITY & USE LIMITATION (AUL) OPINION FORM**

Pursuant to 310 CMR 40.1056 &amp; 40.1070 - 40.1084 (Subpart J)

**D. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

- > If Section B indicates that a **Notice of Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1074;
- > If Section B indicates that an **Evaluation of Changes in Land Uses/Activities and/or Site Conditions after a Response Action Outcome Statement** is being submitted, this evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1080;
- > If Section B indicates that an **Amended Notice of Activity and Use Limitation or Amendment to a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 40.1081;
- > If Section B indicates that a **Termination or a Partial Termination of a Notice of Activity and Use Limitation, or a Release or Partial Release of a Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1083;
- > If Section B indicates that a **Grant of Environmental Restriction** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1071;
- > If Section B indicates that a **Confirmatory Activity and Use Limitation** is being registered and/or recorded, the Activity and Use Limitation that is the subject of this submittal (i) is being provided in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (ii) complies with 310 CMR 40.1085(4);

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: **6105**2. First Name: **ANTHONY F**3. Last Name: **ANDRONICO**4. Telephone: **6173289229**5. Ext.: 6. FAX: 

7. Signature:

8. Date: **10/02/2007**

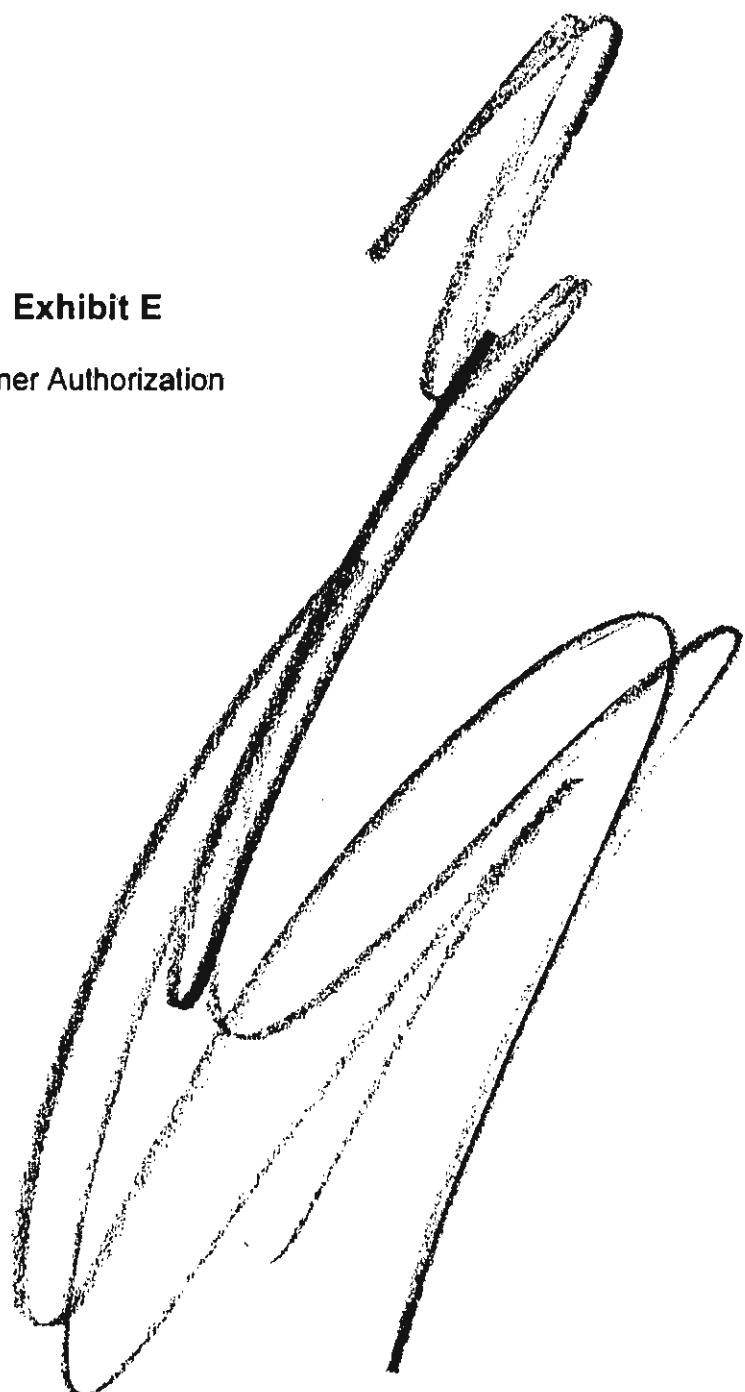
mm/dd/yyyy

9. LSP Stamp:



**Exhibit E**

Owner Authorization



**CERTIFICATE OF VOTE**

The undersigned hereby certifies as follows:

(1) That he is the duly qualified Secretary of the Boston Redevelopment Authority, hereinafter called the Authority, and the keeper of the records including the journal of proceedings of the Authority.

(2) That the following is a true and correct copy of a vote as finally adopted at a meeting of the Authority held on December 6, 2007 duly recorded in this office:

Copies of a memorandum dated December 6, 2007 were distributed entitled "PARCEL 200 SOUTH END URBAN RENEWAL AREA, CROSSTOWN CENTER PROJECT, ROXBURY, MASSACHUSETTS, NOTICE OF ACTIVITY AND USE LIMITATION", which included a proposed vote.

On a motion duly made and seconded, it was unanimously

VOTED: That the Boston Redevelopment Authority ("BRA") hereby authorizes the Director to execute a Notice of Activity and Use Limitation ("AUL") pursuant to Section 6 of Chapter 21E of the Massachusetts General Laws, as amended, and the Massachusetts Contingency Plan, in connection with the Crosstown Center Project for Parcel 200, also known as 7-17 Melnea Cass Boulevard, and any and all other documents deemed necessary and appropriate by the Director in connection with said AUL.

(3) That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Authority voted in a proper manner and all other requirements and proceeding under law incident to the proper adoption or the passage of said vote have been duly fulfilled, carried out and otherwise observed.

(4) That the document to which this certificate is attached was authorized by the foregoing vote.

(5) That if an impression of the seal has been affixed below, it constitutes the official seal of the Boston Redevelopment Authority, and this certificate is hereby executed under such official seal.

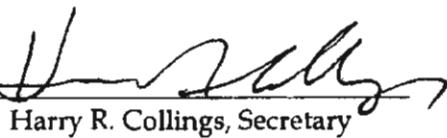
(6) That John F. Palmieri is the Director of this Authority.

(7) That the undersigned is duly authorized to execute this certificate.

IN WITNESS WHEREOF, the undersigned hereunto has set his hand this 17<sup>th</sup> day of December, 2007.

**BOSTON REDEVELOPMENT AUTHORITY**

By:

  
Harry R. Collings, Secretary

LS

Recorded Land  
Register of Deeds  
Francis M. Roache

**Suffolk County**

**SEARCH RESULTS REPORT \*\***

*Note: Report is Sorted in Ascending Order by Recorded Date, Document Number*

Run Date: 02/15/2008  
Run Time: 09:06  
Page 1 of 1

DOC #	DOCUMENT TYPE	TOWN	FILE DATE	STREET
	CONSIDERATION AMT	ASSUMED MTG	BOOK/PAGE	PROPERTY DESCRIPTION
15850	NOTICE	BOSTON 00	02/14/2008 43100/199	REF BOOK 29152
GR				REF PAGE 191

BOSTON REDEVELOPMENT AUTHORITY

**FEB 15 2009**

THIS IS A TRUE COPY OF AN INSTRUMENT  
RECORDED IN THE SUFFOLK COUNTY  
REGISTRY OF DEEDS AT THE BOOK AND  
PAGE ON THE FIRST PAGE HEREOF.

ATTEST:

*Francis M. Roache*  
FRANCIS M. ROACHE  
REGISTER OF DEEDS



**GANNETT FLEMING, INC.**  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
**Office:** (617) 527-7822  
**Fax:** (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 14, 2008

Mayor Thomas Menino  
Mayor's Office  
1 City Hall Square  
Boston, MA 02201

Re: Notification to Chief Municipal Officer of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mayor Menino:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in cursive ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





**GANNETT FLEMING, INC.**  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
**Office:** (617) 527-7822  
**Fax:** (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

February 14, 2008

Inspectional Services Department  
Gary Moccia, Commissioner  
1010 Massachusetts Avenue, 5<sup>th</sup> Floor  
Boston, MA 02118

Re: Notification to Building Code Enforcement Official of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Moccia:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,  
Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





February 14, 2008

**GANNETT FLEMING, INC.**

Suite 210  
199 Wells Avenue  
Newton, MA 02459

**Office: (617) 527-7822**  
**Fax: (617) 527-7806**  
**www.gannettfleming.com**

Boston Public Health Commission  
John Auerbach, Executive Director  
1010 Massachusetts Avenue, 2<sup>nd</sup> Floor  
Boston, MA 02118

Re: Notification to Board of Health of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Auerbach:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





February 14, 2008

**GANNETT FLEMING, INC.**  
Suite 210  
199 Wells Avenue  
Newton, MA 02459  
**Office:** (617) 527-7822  
**Fax:** (617) 527-7806  
[www.gannettfleming.com](http://www.gannettfleming.com)

Inspectional Services Department  
Gary Moccia, Commissioner  
1010 Massachusetts Avenue, 5<sup>th</sup> Floor  
Boston, MA 02118

Re: Notification to Zoning Official of  
Activity and Use Limitation  
Former National Lead Company Site  
800 Albany Street  
Boston, MA  
MassDEP RTN 3-245

Dear Mr. Moccia:

Pursuant to section 310 CMR40.1403(7)(a) of the Massachusetts Contingency Plan (MCP), enclosed is a copy of an Activity and Use Limitation for the above-referenced site, that was filed at the Suffolk County Registry of Deeds on February 14, 2008. Any questions or comments pertaining to this notice may be directed to me at 617-328-9229.

Sincerely,

Gannett Fleming, Inc.

A handwritten signature in black ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosures

cc: P. Cameron – CJ Crosstown Associates, LLC  
C. Courchesne – Goodwin Proctor LLP  
MassDEP





## **APPENDIX E**



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Site Cleanup**

**BWSC122**

This notice is related to:  
Release Tracking Number

3

- 245

**INFORMATIONAL NOTICE TO PROPERTY OWNERS**

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

**A. DISPOSAL SITE ADDRESS:** (associated with Release Tracking Number provided above)

1. Street Address: 800 Albany Street

2. City/Town: Boston (Roxbury)

3. ZIP Code: 02119-0000

**B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:**

1. Name of Property Owner: City of Boston

2. Address of Property For Which This Notice is Being Provided Owned by Property Owner named in B1:

a. Street Address: Melnea Cass Boulevard, Massachusetts Avenue and Albany Street

b. City/Town: Boston (Roxbury)

c. ZIP Code: 02119-0000

**RECEIVED**

**C. THIS NOTICE IS BEING GIVEN:** (check one)

1. Upon Completion of a Phase II Comprehensive Site Assessment.

**MAR 07 2008**

2. Upon Submittal of a Response Action Outcome (i.e., Site Closure Report).

3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

**DEP**

**NORTHEAST REGIONAL OFFICE**

**D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :**

(check all that apply)

**AFFECTED ENVIRONMENTAL MEDIA**

**PRINCIPAL CHEMICAL(S) PRESENT**

1. Soil

Lead,PAHs and Petroleum Hydrocarbons

2. Groundwater

Lead,PAHs and Petroleum Hydrocarbons

3. Surface Water

4. Sediment

5. Indoor Air

6. Other:

(specify)

**NORTHEAST REGIONAL OFFICE**

**MAR 07 2008**

**DEP**

**RECEIVED**

**E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:**

1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous is or

is likely to be Present.

2. A Copy of the Phase II Completion Site Assessment or Response Action Outcome Conclusions.

**F. CONTACT INFORMATION RELATED TO THE PARTY PROVIDING THIS NOTICE:**

1. Contact Name: PETER CAMERON 2. Street: 150 Mt. Vernon St., Ste 500

3. City/Town: Boston 4. State: MA 5. ZIP Code: 02125-0000

6. Telephone: (617) 822-7371 7. Email: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Site Cleanup**

**INFORMATIONAL NOTICE TO PROPERTY OWNERS**

**BWSC122**

This notice is related to:  
Release Tracking Number

3 - 245

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

**MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE**

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

**THE PERSON(S) PROVIDING THIS NOTICE**

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

**PURPOSE OF THIS NOTICE**

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not, as previously suspected, present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

**INFORMATION RELATED TO YOUR PROPERTY**

**Section D** on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

**ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS**

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

**FOR MORE INFORMATION**

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>.

For more information regarding this notice, you may contact the party listed in **Section F** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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March 5, 2008

City of Boston City Hall  
Mayor Thomas Menino  
1 City Hall Square  
Boston, MA 02108-2102

Re: Class A-3 Response Action Outcome Statement  
Former National Lead Site  
800 Albany Street  
Boston (Roxbury), MA  
MassDEP RTN 3-0245

Dear Mayor Menino:

Pursuant to section 310 CMR40.1403(3)(f) of the Massachusetts Contingency Plan (MCP) this letter is provided to notify you that a Class A-3 Response Action Outcome (RAO) has been submitted to the Massachusetts Department of Environmental Protection (MassDEP). A copy of the RAO is attached for your information. In addition, as part of the site extends into the public roadway's on Melnea Cass Boulevard, Massachusetts Avenue and Albany Street, the information notice (form BWSC-122) required per 310 CMR 40.1406 is also attached.

Very truly yours,  
GANNETT FLEMING, INC.

A handwritten signature in cursive ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosure

CC: MassDEP Northeast Regional Office, BWSC  
P. Cameron (CJ Crosstown LLC)





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March 5, 2008

Boston Public Health Commission  
John Auerbach, Executive Director  
1010 Massachusetts Avenue, 2<sup>nd</sup> Floor  
Boston, MA 02118

Re: Class A-3 Response Action Outcome Statement  
Former National Lead Site  
800 Albany Street  
Boston (Roxbury), MA  
MassDEP RTN 3-0245

Dear Executive Director Auerbach:

Pursuant to section 310 CMR40.1403(3)(f) of the Massachusetts Contingency Plan (MCP) this letter is provided to notify you that a Class A-3 Response Action Outcome (RAO) has been submitted to the Massachusetts Department of Environmental Protection (MassDEP). A copy of the RAO is attached for your information.

If you have any questions or comments, please do not hesitate to contact me at (617) 328-9229.

Very truly yours,  
GANNETT FLEMING, INC.

A handwritten signature in cursive ink that reads "Anthony F. Andronico".

Anthony F. Andronico, LSP

Enclosure

CC: MassDEP Northeast Regional Office, BWSC  
P. Cameron (CJ Crosstown LLC)

